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NRECA/CAI ADVISORY TEAM

QUARTERLY REPORT

TO

RURAL ELECTRIFICATION BOARD
DHAKA
BANGLADESH

QUARTER ENDING 30 JUNE 1984

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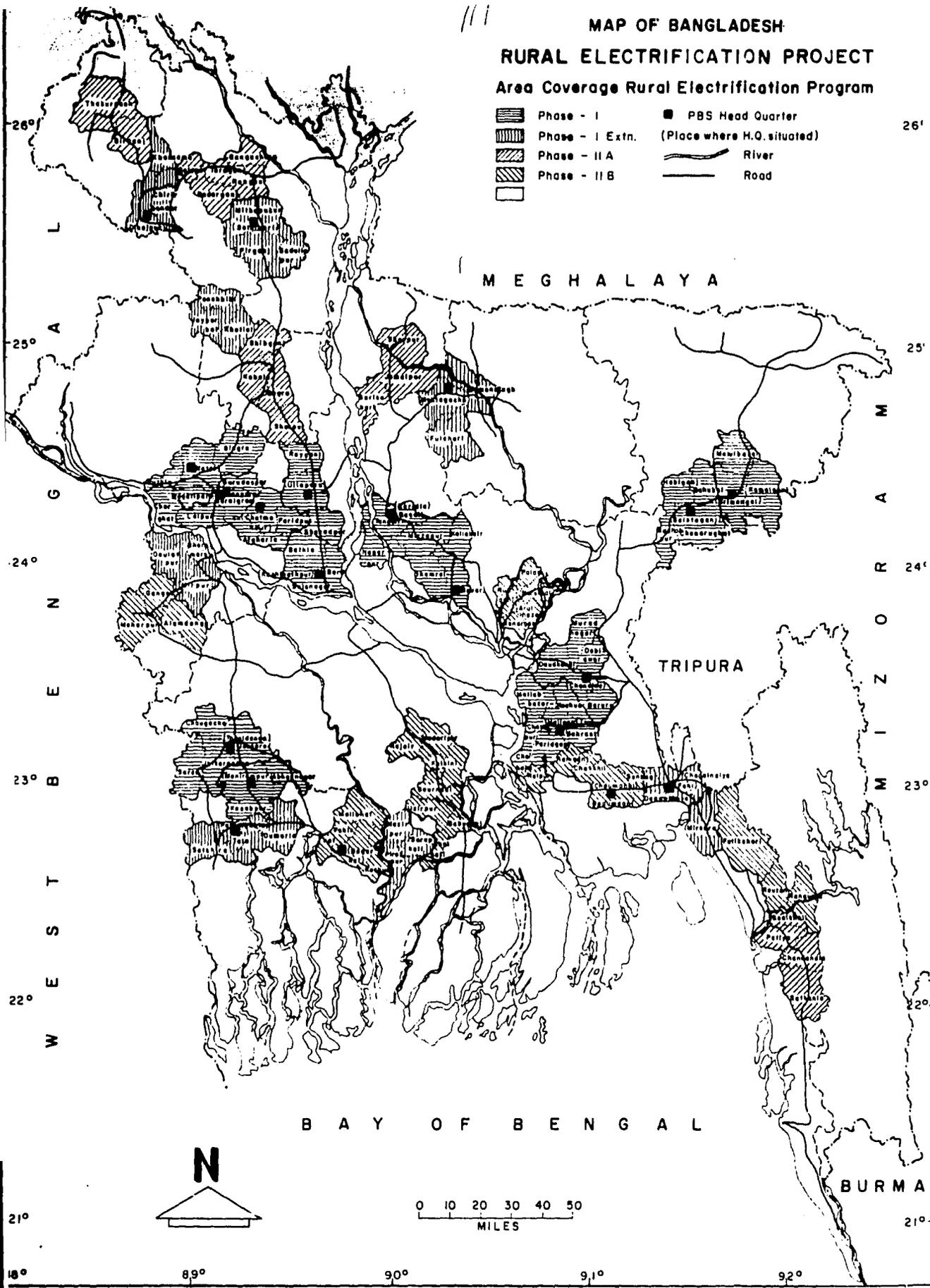
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MAP OF BANGLADESH RURAL ELECTRIFICATION PROJECT

Area Coverage Rural Electrification Program

-  Phase - I
-  Phase - I Extn. (Place where H.O. situated)
-  Phase - II A
-  Phase - II B
-  (Unshaded area)
-  PBS Head Quarter
-  River
-  Road



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I. GENERAL

Mr. Sam Bunker, Administrator for NRECA Int. Ltd., Washington D.C., arrived in Dhaka 6 April to review the project progress and problems, also to make protocol visits. Mr. Bunker departed Dhaka 11 April.

Mr. Richard Bates, Short Term Meter Specialist departed the project 20 April, after conducting and monitoring meter testing and maintenance training courses for REB/PBS personnel.

Mr. Jim McGill, Short Term OCR/Regulator Operation and Maintenance Specialist, arrived in Dhaka 18 May to work with REB/PBS personnel. Mr. McGill will conduct and monitor training courses in OCR/Regulator Operation and Maintenance practices and procedures during the next three months. The training is to include class room, hands-on practical application in the REB System Operations repair facilities and hands-on field application and training.

Hugh and Ruth Smith arrived on the project 15 June. Hugh had been Finance Advisor for a NRECA Rural Electrification Project in Egypt and will be the REB/PBS Finance Advisor for the Bangladesh project.

Mr. Roger Westenhoek, Engineering Advisor, and wife, Mr. Jim Hardman, Construction Advisor, and wife and Mr. Clayton Strampher, Construction Advisor and family departed Dhaka to enjoy home leave during the quarter.

Vince Larkin, CAI Jackson, visited the project during the quarter. Vince had been in Taiwan, Korea and stopped on his way to India to do material pre-shipment inspections for REB line materials.

Mr. Ed. Gaither, NRECA home office and Bill Cheesman, CAI home office, were in Dhaka to conduct negotiations for the Sixth Amendment to the Technical Services Agreement between REB and NRECA/CAI. The existing Amendment expires 10 July 1984. The Sixth Amendment will be for a three year term beginning 11 July 1984 and expiring 10 July 1987. The Amendment was finalized between REB and NRECA/CAI and presented to the REB the last of May 1984 for review by the G.O.B. Final AID/D approval must still be given.

Several of the Consultant team and family were medically evacuated during the quarter. Ben Schafer, Finance Advisor-Bangkok. Erin Cureton minor daughter of Ken Cureton-Bangkok; Mary Allard, wife of Paul Allard to Bangkok and Rolf Meyer to Bangkok. All have returned except Rolf Meyer.

The monsoons and high water has caused a slowdown in construction as was expected.

One engineering position is still vacant on the Consulting team.

II. INSTITUTIONAL DEVELOPMENT

A. REB Development

Special skills training courses conducted in meter testing/repair and OCR/Regulator testing/repair/operation through the REB Technical Training Directorate in cooperation with REB System Operations Directorate have been very beneficial and productive for REB/PBS employees.

Team from Denmark, United Arab Emirates and IDA inquired of the REB Chairman, REB Directorates and several PBSs gathering information for possible future funding for the Rural Electrification project during the quarter.

The Planning Directorate has been working hard in preparing a draft of the pre-feasibility study for RE Phase III Rural Electrification.

The SE&D Directorate and Procurement Directorate have been very busy in preparing bid documents and evaluation of bids received during the quarter. SE&D is presently reviewing the procurement needs in preparation to meet future construction requirements for the project.

Construction Material continues to arrive in Khulna for the 1984-85 construction season.

Development has been completed in Rangpur 2 (AID project) and Barisal PBS I (KFAED). Directors have now been selected and Barisal PBS I registered. Rangpur 2 is scheduled to have their registration in the third quarter.

All REB Directorates have completed their written plan of-action for the next three years. These have been reviewed by the REB Chairman, Consultants and the summary by AID/D.

B. PBS Development

All Managers of energized PBSs, with the exception of two, attended a two day conference in Dhaka. The Chairman of REB Brig. Ahmed and each of the REB Board Members met with the General Managers and discussed problems the participants had identified prior to the conference. Each respective Director of Management Operations, Finance and System Operation also met with the General Managers and exchanged ideas and discussed problems. It was decided that a meeting of the General Managers will be held every six months. Next meeting is schedule for December 1984.

The General Managers conference should continue, as a great amount of knowledge from practical experience and information could be exchanged.

Comilla PBS-I (US AID)

During the quarter, personnel changes were made in the COM Department. AGM COM Bahauddin was transferred to Dhaka PBS I as AGM COM. Mr. Chowdhury, who was working for a Consulting Engineering firm and had previous experience as AGM COM at Dhaka PBS I, was hired and placed in charge. AGM COM Chowdhury, with the assistance from the General Manager is working very diligently to bring this department up to higher standards.

The AGM G.S. received extensive training at REB, with emphasis, in filing and proper office procedures, during the quarter.

C.M. & O's and meter connections are being worked on a daily basis with only 123 collections and 33 meter connections that needed to be worked at the end of the quarter.

The changes that have been made within the billing section, are working very satisfactory. Recommendations should be forth coming, for the same implementation in the remaining PBS's this will assist the billing personel in preparing more bills per billing assistant per month.

During the quarter the Operations people experienced a storm that blew down and broke a numbers of poles. A contractor was engaged and service was restored. Problems still exist with the line pole top and bell insulators breaking down and causing poles fires. Effort needs to be made, to establish, adequate specifications on line material that will prevent this problem to the PBS.

Plant Accountant needs adequate transformer records. At present these records are lacking.

It will be impossible for the PBS to implement the work order procedure, with out a price list of all material items, being furnished to the PBS.

A successful annual meeting of the consumer members was held with a Quorum present. There was four newly elected directors seated during the Annual meeting.

Sirajganj PBS-I (US AID) (Pabna PBS-III)

During the quarter, problems arose between the General Manager, REB and the consumers. Resulting in the removal of the G.M. REB deputed a Deputy Director, from Management Operation Directorate as General Manager incharge and is at the present time assisting the newly appointed General Manager with his duties as G.M. The Manual "Management its Nature and Scope" should be used as resource material for PBS Administrative Officers.

The AGM-COM has been releived of his duties, a replacement was hired to fill that position.

Progress continues inspite, of the many problems and difficulties that have arisen at this PBS. Attention is recommended, to this PBS for an extended period of time to help the Board and Management to function in the proper manner. All of the problems within the PBS could be over come with guidance.

The operating report indicates, the PBS will operate, with a margin over expenses for the physical year.

There two area's that need immediate attention. One is collections which is 84%, the other is 3787 COMs that need to be worked.

Notice should be taken of the name change from Pabna PBS-III to Sirajganj PBS-I to reflect the name of the newly created district.

Moulvibazar PBS-I (US AID) (Sylhet PBS-II)

The PBS has suffered from extended flooding during the quarter with a large number of consumers losing their lives and others losing every thing they owned. The loss will certainly have an effect on the PBS and community for several months.

The PBS service area, prior to the flooding and since have suffered from drouth, resulting in an abnormal operation for the year. Final year ending information was not available during the period.

Training was given to the AGM-COM and AGM-G.S. during the quarter to assist them to be more proficient in proforming their duties.

Work order procedure, could not be fully implemented, because of the lack of a priceing for material which has not been received from REB.

Habiganj PBS-I (US AID) (Sylhet PBS-I)

Progress is continuing with over one thousand connections being added during the quarter. Approximately one third of this total connected was consumers that where take over from PDB.

Attention and work is still lacking, for removal of silt and earth, from the garden and storage area of the PBS. The silt and earth could be removed and used to prevent further damage to the PBS property from flood water in the future.

The PBS finance department, was given assistance by REB Finance Directorate during the quarter. That effort reflects in the improved preparation of the 550 report.

All department head positions are filled at the present time. The billing department is processing nearly 5000 consumers each month. According to the last report available from the PBS collection were running 94% of total amount billed.

The PBS name has been changed to reflect the new district and will be known as Habiganj PBS-I in the future.

Tangail PBS-^r (US AID)

A successful Annual Meeting of the Member Consumers was held, during the quarter with a qurom present and attendance was good, for the business session. Six newly elected directors were seated at the meeting.

At the Board meeting, following the Annual Meeting, Dr. Kh^r was relected as president as were the other office bearers that were serving the PBS.

Collections continue to be a problem with Management. Irrigation and General Power are the classifications, that have the largest taka amount due, but Domestic have the largest number, that have not paid their electric bill. Consideration of a policy that will require the irrigation consumers to pay the amount due, plus the same amount again for additional security deposit would be in order. The PBS should not be required to carry the arrears forward until the next irrigation season.

All Department Head positions are filled except the AGM.-GS position. This positcion should be filled, as soon as possible for smooth operation.

From the 550 monthly report a very strong indication, of excess funds, above expenses for the physical year's reflected.

Dhaka PBS-I (US AID)

This PBS reflects the strongest position financially of any PBS in Bangladesh. It is very possible that it would still show a margin with all the plant cost recorded.

The line loss is also good showing 17% for the year. It could possibly be lowered further with the field checking of meters and service drop inspections, that is being conducted at the present time.

Progress continues with meter connections, with over 100 being made each month.

There is a problem area, that being collections last report that was available, showed fifty three percent (53) of collections outstanding and over thirty days. Attention is needed on a daily basis to prevent backlog of CMO's and keep collection to minimum. Waiting until a large number of CMO accumulate and then have a crash work program, to delete same, is not a desirable method for the PBS or consumers.

Pabna PBS-II (US AID)

Collection report shows 27% over 30 days outstanding and due the PBS. This is not a serious problem at this time. But it could have very serious affect on the financial position if attention is not rendered on a timely basis.

It is desirable that a greater number of meter connections could have been made during the quarter. Material shortage was one contributing factor. Management needs to plan an extended program for meter connection and member education within the PBS service area.

The PBS has constructed over 4 miles of line using REB instruction 100.41. Their finance department needs a price list of each item of material to complete the work order procedure that should be followed and as recommended by REB.

The last available statistical report (REB 550 Form) reflects only 9½% line loss. This amount is among the lowest of the line loss, shown in Bangladesh, among the PBS's.

Chandpur PBS (US AID). (Comilla PBS-II)

Directors of Management Operations and Finance visited this PBS during the quarter to check and observe reported problems with in Finance, Construction Operation Maintenance and Management. There will be further investigation, before a final recommendation is made for action to be taken.

Approximately 600 consumers member registered for the annual meeting of members. There was over 1000 people who attended the business session. The greatest concern shown among those members present was load shedding and the need for additional lines where

by they could receive electricity. Directors and Management explained the reason for two problems mentioned and their explanation was accepted. Immediately following the annual meeting, an election for office bearers was held in the PBS Board room for the coming year. The results where as follows: President and secretary remained the same. The member who had served as Treasure became Vice President and another Director was elected Treasurer. Prior to the Annual Meeting the members elected 4 New Directors from the same number of Elaka's.

During the quarter there was approximately 40 miles of line energized and 1000 meters connected. Over 5 miles of line constructed and energized under instruction 100-41. Material price list is needed where by construction work orders can be completed and properly recorded to the plant accounts of the PBS.

The Comilla PBS-II name has been change to Chandpur PBS to reflect new name of district and will be called Chandpur PBS in the future.

Rajshahi PBS-I (US AID)

The PBS has undergone a change in management leadership for the second time this year. During the first quarter of the year, General Manager Azim was succeeded by Dy. Director of Evaluations, REB, Mr. Ali Hossain who was posted as GM-on-Deputation. During the month of May, Mr. Hossain was succeeded by present General Manager, Mr. Razzaque who had previously served as AGM(GS) at Pabna PBS-III and Tangail PBS-I. With this latest change in leadership the system is expected to show new and dynamite progress.

The department of finance of the PBS at present is very disorganized. As a result of REB investigation, proceedings are underway against the AGM(F) and certain employees of this department.

Consumer-Members of the PBS has reached almost 7500, however this is still below that of its neighbouring and junior PBS, Rajshahi II.

Jessore PBS-II (US AID)

General Manager Md. Rafiqul Islam has completed his first year of service with the PBS. The progress of the samity under Mr. Islam's leadership has been outstanding.

A large portion of PDB system has been taken over by the PBS during this quarter. Consumer-Members have reached 9,100 plus.

After many months of operations under series of poor management this system has begun to develop the potential growth and progress which exist within the service area and is well on its way to becoming a leading PBS operation.

Jessore PBS-I (US AID)

The connected consumer-members of this PBS exceed 8,100 as of the end of this quarter.

The Board of Directors has a number of vacancies at present and preparatory work has been formalized in order to fill the vacant positions as per approved policy. The executive committee of the Board has met with the Chairman REB and received information and were provided with solutions to some of their existing problems.

General Manager, Kabir proposed introduction of a consumer-member complaint box, to be installed within the lobby of the office of each PBS headquarters. This suggestion has been accepted and each PBS will hosebulle be benefited through this idea.

Raishahi PBS-II (US AID)

Concerned Member-relations activities high-light the list of functions pertaining to PBS Management during the quarter. Information provided to REB by the PBS on this subject imply the some to be ideally followed by other PBS's who may be lacking in this particular field.

The PBS is providing electric service to approximately 8000 at the end of this quarter.

General Manager Chowdhury's, careful and relentless endeavors in management of the PBS is expected to keep the system on a progressive course and continuous growth in number of service connections.

Pabna PBS-I (US AID)

Having been formally energized only in January of this year, the PBS has already connected nearly 4,500 consumer-members as of the end of this quarter. This is a remarkable and outstanding achievement, particularly when received in the contest, that this PBS service area has less potential than any other samity of these established in the first Phase PBS's.

Local persons had tried to jeopardize the PBS activities by way of malpractice, but the problems are now reported to have been overcome, and the PBS is again operating in a favourable position.

Rangpur PBS-I (KFAED)

G.M. Kibria has been succeeded by General Manager, N.N. Sarker, a new recruit. Mr. Kibria has been posted to Khulna PBS-II.

The Samity was formally energized on 14, April, the Bengali New Year's day. At the end of this quarter, over 800 consumer-members have been provided with electric connections.

To date the office building of the PBS complex is yet to be completed and made habitable for efficient employee use. This is a handicap in the efficacy of the PBS operations.

The PBS has 66.25 miles of electric lines energized, with 31 villages receiving service.

Quick and often changes in management leadership may not be favourable to the interest of the PBS. Experiences of the past in this regard should be reviewed and used for future guidelines.

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Khulna PBS-I (KFAED)

With 123 miles of energized electric lines, 67 villages served and over 1300 consumer-member connected, the PBS has completed its 4th months of operations at the end of this quarter. During the month of May the system experienced very frequent interruption of power supply to the PBS substation. This loss of power from PDB caused a loss of enthusiasm with a number of consumer applicants in wiring their establishments as facilities expanded. Only with a high-order of motivational campaign by management of the PBS with active help of members of the Board of Directors, was the situation improved.

Management of the PBS has arranged a crisis inspection of both PBS and PDB lines by a joint PBS-PDB team of inspectors. This is a very positive measure toward ensuring reliable electric service to the consumer-member.

Board meetings are held regularly with board members actively participating in the discussions.

Dinajpur PBS-I (KFAED)

Line Construction is on going within the service area of the PBS with expectation of energization in the next quarter. Construction of civil work is also underway at this time.

Village electrician training is nearing completion. Two groups have been in training during this quarter. House wiring will begin very shortly.

Mr. Imamu/ Huq has been serving as General Manager of the PBS since December 1983, and has demonstrated sound, leadership qualifications.

The PBS Board of Directors are active in discussing and solving problems which have developed, during the initial phase of PBS growth and development.

All department head positions have been filled as requirements develop. The development phase of the PBS has been proceeding as per schedule.

Kushtia PBS-I (KFAED)

General Manager Shudhangshu has completed his 6th month with the PBS.

Backbone line construction is well underway at this date and barring unexpected difficulties plans for energization of the system will meet planned schedule.

Civil work on the Headquarter complex is expected to begin shortly.

Mr. Grhese, AGM(F) has resigned from the PBS program, his replacement is expected to join PBS by early July.

Feni PBS-I (KFAED) (Noakhali PBS-I)

All of the Department Head position are posted at the present time. Because of very hard work being performed by management and all concerned, the PBS has over 1500 meters connected.

This being a relative new PBS, energized in the last quarter, collections are only 65%. This could become a serious problem. Attention should be given, by Management, to correct this problem. History reflects that when a firm and fair policy is followed with regard to collections, the consumers, will pay their last bills, within the specified time.

Completion of the construction for the water system is not yet complete.

The name Noakhali PBS-I has been changed to Feni PBS to reflect the new district and will called Feni PBS in the future.

Mymensingh PBS-I (KFAED)

Meter connection are not up to expectations, with only 700 connections since being energized during the last quarter. The Board of Directors have begun to question the Consultant and XEN about the Construction Program. The Board wants line constructed in areas where people are ready for service and desire the service. Hopefully this type of effort, will result in improvement.

Management is working very diligently with the electricians and consumers to encourage the wiring of the houses in making preparation of the lines being constructed.

Percentage of collection is not acceptable being only 55% at last report. Realizing this is a depressed area and the people have limited income, the Management is not doing the consumer a favour, by not requiring them to pay for the service received. Attention is needed to correct this problem. Corrective action should not wait as this could become a very serious problem.

No report has been received as to the percentage of completion of the office complex.

Faridpur PBS-I (IDA)

General Manager Roushan Ali is making ready all requirements for the PBS membership drive scheduled to begin the latter part of July. Approval of system keymap was received during the month of May.

At present the positions of AGM(MS) and AGM(C.O.& M.) are vacant and reports indicate no posting of AGM(MS) will be forthcoming.

With the southern half of this samity being located in low-lying areas and having an abundance of canal communications, use of a speed boat during membership drive should be given highest consideration.

During the reporting period the PBS Board had disrupted relations with the PBS administration, however this was due to General Manager taking wrong steps with regards to procurement procedures. Necessary correction steps have been taken and working relationship between management and Board have improved greatly. The General Manager alongwith all employees of the PBS will find following and proper use of the approved Policy Instructions will always be the best course of action and can avoid many problems and misunderstandings.

Membership drive is expected to be completed by last of September 84.

Barisal PBS-II (IDA)

General Manager Faruque took the charge of General Manager, of the PBS in early June from the XEN. G.M. Faruque, previously had served as AGM-COM of Comilla PBS-I and Dhaka PBS-I. He also received six weeks of extensive training in the U.S.A.

Key map and line design has been approved by the PBS and the REB Board. Management is making plans for the membership drive to be conducted the last of July. PBS Board members and Management displayed great interest in obtaining the highest number of applicants for membership within the designed miles. This PBS, geographically has more canals than roads and could use a speed boat to a good advance during membership drive.

Civil construction of the PBS complex is progressing rapidly.

Khulna-II (IDA)

General Manager Kibria assumed charge of the PBS from, XEN A. N. Mohammad, late in the quarter. G.M. had previously served as G.M. of Rangpur PBS-I. This position and AGM-GS are the only positions filled at the present time.

The Board of Directors held its 3rd Board meeting in June. Temporary office accommodations are in the process of being secured. Transports as per allocation are needed.

Bogra PBS-I (IDA)

The Board of Directors, held the 3rd meeting of the Board, on 11 June 1984. S.E. of Rajshahi Zone, REB, Mr. Mamun is holding the charge of General Manager. Mr. Basak also joined the PBS in early June as AGM-GS.

Construction of the office complex is being delayed, therefore securing of hired accommodation for the PBS are not underway.

Local consultant will start the key map, line design and layout for the PBS in the near future.

Barisal PBS-I (IDA)

This is the last PBS, that was registered in the quarter, being registered on 20 May, 1984, with REB. The Board consisting of 7 members and 2 lady advisors also held their first Board meeting on the 24th.

There have been no employees posted, to the PBS as yet and the XEN Mr. A.N. Mohammad of Khulna project division is holding the charge as General Manager.

The Consultant will, in the near future, submit the proposed key map and layout to the PBS Board for their approval.

Noakhali PBS-(IDA) (Noakhali PBS-II)

Site has been tentatively selected for office complex and substation. Work is continuing on line design.

Attendance of the Board at the Board meetings continues to be good.

No other department heads have been posted since last report.

Note that Roman number-II has been deleted and will be called only Noakhali PBS in the future.

C. Training Activities

a) Institutional Training

In addition to training courses conducted, the following training activities were carried out.

The Training Directorate did a study and projection of training load for the next three years and recommended staffing and physical facilities necessary to satisfy these requirements. The study included the formal training to be offered by the REB Training Institute and training which would be expected to be offered by the PBS but coordinated and monitored by REB. In the projection were recommendations for developing a program of Supervised Field Experience and Follow-up Instruction. This approach would significantly increase the scope of responsibility of the Directorate for meeting the overall needs for training. It is recommended that attention be given to providing a certain amount of field follow-up instruction in selected areas of training. There is a need for the scope of responsibility for training to be increased.

In June, a two-day conference was held for PBS General Managers. The conference was coordinated by the Directorate of Management Operations. From all observations the conference was deemed to be a success and a type of activity which should be held on a regular basis. It was decided to hold such a conference for General Managers semi-annually. The next conference has been scheduled for December 1984. It is not important that those in the PBSs who are General Managers or Department Heads meet periodically in their respective sections for the purposes of sharing ideas, solving problems, learning of new developments and practices, etc. in order not only to make continuing progress in their personal development but also for the welfare of their organization. The General Managers Conference represent a significant step toward a program for the continuous upgrading of the total rural electrification program.

Two new training courses were introduced during the quarter. These were "Office Management" and "Records Management." The courses were offered for the first time to PBS Department Heads--General Services. It is the intent to offer these courses as specially adapted to all REB and PBS officers. During their first presentations the courses were carefully monitored and evaluated for any modifications which if made would make the courses more effective.

Three newly appointed General Manager trainees completed their field training assignment in May. Two of the three were visited in the field by Training Directorate personnel for the purpose of observing progress and giving direction for the most effective utilization of this training period. It is recommended that training personnel visit each field trainee for a minimum of one day during his field training period to observe and give assistance as required.

One new training manual was prepared and printed. The manual, "Establishing Good Member Relations." will be used as a text/reference source for a Workshop by the same name for PBS Boards of Directors.

Two teaching guides underwent revisions and republication. These were for the courses "Management--Its Nature and Scope" and "Planning and Organizing for Successful PBS Operation." The former was revised in order to be consistent with the revised training manual. The

latter was adapted for use with a changed category of trainee.

Programs of Supervised Experience and Field Follow-up instruction were developed for the following courses:

Planning and Organizing for Successful PBS Operation.

Office Management.

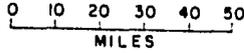
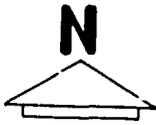
Management--Its Nature and Scope.

A tabulation of training activities for the quarter follows:

<u>Name of Course</u>	<u>Participants</u>	<u>This Qtr.</u>	<u>Total to Date</u>
REB Orientation Course	New REB Officers and supporting staff.	19	643
PBS Orientation Course	New PBS General Managers and Department Heads.	9	165
Refresher Course on REB Activities	REB Officers and supporting staff.	-	267
PBS Directors Orientation Course	PBS Directors, Lady Advisors GM, Dept. Head-GS	12	376
The PBS Director Performing the job Effectively in the Board Room.	PBS Directors, Lady Advisors, GM, Dept. Head-GS.	26	222
Policy Development	PBS Directors, Lady Advisors GM, Dept. Head-GS	26	229
Challenges and Problems in Operating the new PBS	PBS Directors, Lady Advisors GM and Dept. Head-GS	-	37
Understanding Financial Reports	PBS Directors, Lady Advisors GM, Dept. Head-F	-	162
Workshop on PBS Policy Instruction	PBS Directors, Lady Advisors GM, Dept. Head-GS	-	154
Controlling-Measuring Results and taking remedial Action	PBS Directors, Lady Advisors	-	0
Management--Its Nature and Scope.	REB Officers, PBS GMs and Dept. Heads.	-	264
Planning and Organizing for Successful PBS Operation.	PBS GMs & Departmental Heads (Also formerly for PBS Boards)	-	176
Management-Understanding People	REB Officers, PBS GMs and Departmental Heads.	-	0
The Nature of Supervision	REB Assistant Director and Class-II Officers, PBS Dept. Head and Supervisors.	9	80
Managing the PBS	PBS General Managers	-	14
Managing the General Services Department	PBS Dept. Head General Services	-	33
Managing the Member Services and Power Use Department.	PBS Dept. Head. Members Services	-	63
Uniform System of Accounts-I	REB Finance Personnel PBS Finance Personnel	-	184
Accounting Procedure	REB Finance Personnel PBS Finance Personnel	-	47
Preparing Financial Reports	PBS Dept. Head-F & Accountant	-	39

<u>Name of Course</u>	<u>Participants</u>	<u>This Qtr.</u>	<u>Total to Date</u>
Billing Procedures	PBS Billing Personnel	-	90
Work Order Procedure & CPR	REB Officers, PBS Finance Personnel	12	187
Auditor's Course	Contract Auditors	43	43
Retail Rate Construction	Dept. Head-Member Services and Power Use	-	14
Records Management	REB Officers and PBS Management Personnel	8	8
Office Management	REB Officers and PBS Management	8	8
Office Procedures & Personnel Policies	REB Officers	-	29
Workshop on Imprest Fund	REB Personnel	-	31
Teaching Class for Departmental Examinations	REB Personnel	-	64
Departmental Examination	REB Personnel	-	6
REB Inter Departmental Relationship in serving the PBS (Part I & II)	Dy. Director & Assistant Director of Management Operations and System Operations Directorates.	-	28
Teacher Training Course	Selected REB Officers	-	10
Distribution System Design and Construction Methods	REB Engineers, Consulting Engineers, PBS Engineers, etc.	-	182
Distribution Line Staking and Staking Sheet Preparation	REB Engineers, Consulting Engineers AGM-CO&M.	-	95
PBS Line Renovation	REB Engineers, Consulting Engineers-		28
PBS Distribution System Construction and Inspection.	REB Engineers PBS Dept. Head-CO&M Line Supervisors	23	135
Line Inspectors Training Course	Inspectors-REB and Consulting Engineers.	64	227
Line Construction Orientation	Contractor Lineman and Construction Firms.	-	155
Distribution Line Construction	Contractor Lineman and Supervisors	-	291
Substation and Distribution Line Operation and Maintenance	PBS Department Head-CO&M Line Supervisors.	-	62
CO&M Accounting	PBS AGM-CO&M	-	14
Line Supervisor's Course, Basic	PBS Line Supervisors	9	28
Lineman's Training Course, Basic, Part-I	PBS Linemen	27	403
Lineman's Training Course, Basic, Part-II	PBS-Linemen	-	198
Lineman's Training Course, Basic, Part-III	PBS Linemen	-	52
Line Equipment Training Course	PBS CO&M-Personnel	13	135
Housewiring Course	Department Head-Member Services Wiring Contractor Wiring Inspector	-	139
Advanced Electricians Course	PBS Power Use Personnel Village Electricians	84	443
Power Use in the PBS	Wiring Coordinators Wiring Inspectors	-	14
Timber Specialists Orientation Courses	REB Timber Specialists	-	6

B A Y O F B E N G A L



89°

90°

91°

92°

- 14 -

<u>Name of Course</u>	<u>Participants</u>	<u>This Qtr.</u>	<u>Total to Date</u>
Warehouse Management	PBS Stores Personnel REB-CO&M	-	61
Meter Testing	PBS CO&M Personnel	22	68
Wireless Operation	PBS CO&M Personnel	-	85
Transport Maintenance	REB & PBS Personnel	17	54
Equipment Operation Courses, Heavy Equipment, Ford Tractor, A-Frame Truck.	REB & PBS Equipment Operations	6	69
Driver Skills Training	REB Drivers PBS Linemen	-	64
Field Training Programs PBS General Managers		3	3
REB Engineers		23	23
PBS Village Electricians Training (certified to do housewiring)		53	1792
Conferences, Forms, etc. PBS General Managers		17	17
TOTAL :		<u>480</u>	<u>6621</u>

(b) Technical Training

Lineman and village electrician training for new Phase-II PBS systems continued to occupy a significant proportion of time and effort for Technical Training.

Translation and preparation for printing of the Basic Lineman Training Manual, Volume I was completed during the quarter. There is an immediate need for these books. At least 1,000 copies should be printed as soon as possible. Work continues on Volume II and III. These should also be ready for printing within the next few months.

In early June, Mr. James McGill, short term equipment specialist, began training of REB personnel in maintenance and repair of oil circuit reclosers and voltage regulators. Deputy Directors (one week) and Assistant Engineers (two weeks) were trained first. Designated A.E.'s are then to begin training PBS Line Supervisors and AGM's with advice and monitoring from Mr. McGill. This training has been highly beneficial and like the program conducted by Mr. Bates earlier, constitutes a worthy example of the need for future short term specialist training. Printed handouts, physical demonstration facilities and a narrated slide presentation are among the permanent contributions Mr. McGill has made to the REB technical training efforts.

Staff and space limitations continue to prevent a training output commensurate with the scope and growth of the rural electrification program. At Jhilimili House, the Technical Training center, an open verandah has now been prepared for use as a classroom for small groups and additional practical demonstration facilities have been added to the already crowded outdoor space.

D. Finance Development

Finance Directorate

The new Finance Advisor of NRECA arrived during the quarter and has his office in the Finance Directorate. In June seven new accountants joined the Directorate with six of them being posted to the material accounting section. They are working under the revised material accounting procedure. The procedure is still under discussion between the Finance Advisor and the Director of Finance and his staff. Parts of it are being implemented with store ledgers being created for each project. Much work yet needs to be done on this procedure and will be concentrated on strongly. A detailed work plan is in preparation.

The office systems branch has started a program to transfer estimated or provisional plant costs from REB to the PBS's. The monthly statements have not reflected sufficient plant costs and thus have shown little depreciation. The result has been that some PBS's have shown a margin and the Government has expressed the thought that no subsidies will be provided for companies with a margin. Office systems branch personnel will begin travelling to PBS's to assist in implementing procedures.

Subsidies amounting to Taka forty million have been received from the Government and passed along to the PBSs for payment of outstanding power supply bills.

Depreciation rates as found in REB Instruction No. 600-15 and PBS Instruction No. 200-21 have been slightly revised to more accurately reflect the service life of assets. The revised rates will be retroactive to FY 77-78.

The REB Chart of Accounts has also been revised to conform to Government regulations having to do with the national budget. The revision is effective for FY 84-85.

A revision of the accounting procedures manual was in process before the departure of Mr. Rolf Meyer. He and an Assistant Director of the office systems branch had completed three chapters out of eight. Work has been temporarily halted on this project. It will be taken up again in the near future.

A committee has been formed to make a determination of the uncommitted fund balances of US AID-I project. The committee will review L-Coms for completion and request closing of those completed.

Internal Audit Branch

Internal Audit operations of REB continuous in accordance with Instruction # 400-17. Work was begun in April to audit the REB Common Service and Transport department for the years 1981-1982 and 1982-1983. Field work has been completed on this project. An operational audit of accounts payable for local purchases was completed and report submitted in June. Audit work was begun in April in the office of the Superintendent Engineer for the period 1978 to 1983. Follow-up reports

were submitted to Member Finance on audit reports of Tejgaon Warehouse, Khulna Warehouse and the Equipment and Material Directorate.

At the end of the quarter the branch was still not fully staffed. Advertisements have been published but emphasis should be placed on bring the staffing to the approved level.

PBS Loan and Audit Directorate

PBS Audit Branch

The first audit of the thirteen PBS's under ACRE Phase-I has been completed and the audit reports of seven PBS's published. The audit reports of the remaining six PBS's are at various stages of completion at the end of this quarter. The printed audit report of Rajshahi PBS-II is now ready for distribution to all concerned; two other reports namely Jessore PBS-II, Pabna PBS-II are being printed after final review. Two other reports, namely, Comilla PBS-II and Sylhet PBS-I, are under final review. With the publication of these reports the original thirteen PBS's will have all received the first audit. Also, special examination of accounts and records of Comilla PBS-II has been done during this quarter and the report sent to all concerned.

In order to meet the requirements of REB Instruction 600-25/PBS Instruction 200-2, a schedule for special examination of accounts and records of four energized PBS's under ACRE Phase-I (extension) is being prepared and the field work is expected to start very soon.

A panel of Chartered Accountant firms has been approved by the Board for conducting REB/PBS audits. From this panel fourteen firms have been appointed and an orientation course conducted for the representatives of these firms to familiarise them with the concept, system and procedure of REB/PBS. The Chartered Accountant firms are scheduled to start their audit work in the field by 21st July, 1984.

PBS Loan Branch

The PBS Loan branch is continuing with system implementation on the basis of the documentation received from the Finance Directorate. Information is being gathered from analysis of the Finance directorate ledgers and work is continuing on updating of loan fund records. The loan records have been established on 2 more PBSs and the work is in various stages of completion. Thus the total number of PBS having loan fund records established is 23 at the end of the this quarter including the 21 PBSs mentioned in the earlier report.

The PBS's Budget for the financial year 1983-84 (revised) and Fy 1984-85 have been approved by the G.O.B. and REB. The approved budget has been circulated to all concerned. For the first time the Revenue Budget of PBS's have been incorporated in the Budget book of G.O.B. To meet the operating deficit of the energized PBS's the G.O.B. has provided subsidy amounting to Tk. 40.00 million and Tk. 50.00 million for the Fy 1983-84 (revised) and Fy 1984-85 respectively.

E. PBS System Operations

In view of the increased loads developing at various PBS substations and problems in fault coordination with PDB, investigative work is ongoing to accumulate data on the 33 KV sub-transmission grid serving the PBS substations. With information obtained on selected sites, recommendations have been made to the REB System Operations Directorate for action to be taken to improve fault coordination between PDB and PBS systems. A test case has been offered for the Chandina substation under the Comilla-I PBS's jurisdiction.

Additional information on developing loads at the various substations is also being gathered and analyzed. Substations which require comprehensive workplans for increasing the load carrying capabilities are Ullapara, Savar, Noapara, Dhamrai, and Chandina. Others that require load splitting or revised sectionalizing are Natore, Mirzapur, Srimangal and Shastaganj. Timely load studies should be conducted at all these substations. Individually tailored recommendations for handling the increased load are being presented to REB. A general recommendation to the System Operations Directorate was given, summarized as follows: As the load increases beyond the continuous current rating of the OCRs in the substation bays, the addition of more feeders to divide the load should be considered, also the capacity of the OCRs may be increased while maintaining the same ground trip rating. Any changes to be made within the substation should be made only after load data has been obtained and the sectionalizing study has been reviewed.

A corrective meter installation program to improve the workmanship of the services was monitored and reviewed by the System Operations Advisors in conjunction with the Power Use Advisor, Technical Training Advisor and REB personnel from System Operations and Power Use. The program was trial tested at Dhaka PBS-I for refinement of implementation procedures. The program was introduced at Pabna PBS-III with subsequent training programs for the Assistant General Managers of Member Services and Construction, Operation and Maintenance. There is evidence that this program has definitely improved the quality of all new services being installed in the PBS's. A workplan for renovating sub-standard prior installations has been implemented at Dhaka PBS-I and should be prepared by other PBS's for implementation. A definite source of system loss is from substandard meter installations where electrical theft is easily managed through improperly secured meters, open meter bases, unsealed meters, and meter manipulation. REB System Operations should closely monitor the PBS's program for improving meter services and offer continued assistance.

After an investigation into the failure of the 33 KV lightning arrestors at several substation sites, a report and recommendation of remedial action has been presented to Member Engineering. The report concludes that a higher rating is required than was originally designed due to the unforeseen voltage

fluctuations in the substation supply voltage. This recommendation should be considered when procuring lightning arresters for future planned substations.

During this quarter, Mr. Jim McGill, a line equipment specialist, arrived in Bangladesh to offer training to REB field officers, REB training staff, and PBS personnel in the operation and maintenance of Oil Circuit Reclosers and Regulators. Mr. McGill has further developed training aids and testing equipment for the Systems Operations Workshop, which will facilitate the testing and repair of line equipment. By incorporating hands-on experience, several pieces of damaged equipment were rendered serviceable by those participating in the classes.

A new corrective maintenance program has begun to install a jumper from the common to ground on the 240 v. potential of the substation metering cabinets of the USAID funded projects. The addition of this jumper will diminish the possibility of damage to the meter and panel instruments. There is need to maintain close monitoring of the readings and performance of the instruments in the substation. Information from these instruments can facilitate REB in preventing load and sectionalizing problems before they occur.

REB and PDB collaborated in tests to verify the accuracy of the booster CTs presently being used in the PBS substations. After repeated tests, the overall results were .09% accuracy. From these results it has been recommended that the multiplier in the substations be adjusted from 412 to 400. PDB has received the request for adjustment and it is under consideration. An additional recommendation referring to the application of the CTs was given to REB. Where a peak load of 2.5 MVA is present at a substation, the booster CTs should be removed from the metering circuit. The metering will be therefore returned to its original status with the multiplier of 1000. The substation meters are being tested to within .2% accuracy at the System Operations meter test facilities. The meters are then taken to PDB facilities for verification and sealing in the presence of REB personnel. Through the implementation of the above mentioned procedures, any error in energy consumption by the PBS's will be reduced to a minimum within practical limits.

Troubleshooting continues to occupy a sizeable amount of the time given to field activities. REB field officers have accompanied the System Operations Advisors and have been given the opportunity of informal training through direct hands-on experience. As REB assumes more of the responsibility of troubleshooting, more emphasis needs to be given on the preparation of workplans by the REB field officers, field trip analysis, and improved record-keeping of field activities. Only experienced field personnel can perform effective troubleshooting. As the project expands, there is an increased need for a continuity of qualified technicians who will perform the actual repair work on line equipment that cannot be repaired in the field.

It must be clearly defined as to who will do the actual repairs of regulators and their respective controls. This requires a special skills technician properly trained to do hands-on work.

F. Member Service & Power Use

REB power use in joint effort with technical training conducted field training programs in Noakhali PBS-I and Khulna PBS-I for PBS personnel and village electricians. The focal point in training was on three-phase motors and controls. Practical training included total wiring of a rice mill.

REB Power Use spent considerable time at Rangpur PBS-I and Mymensingh PBS-I working with personnel instructing and monitoring meter setting, service drop installations and irrigation motor connections.

REB Power Use, in cooperation with REB System Operations and Technical Training, have launched a training program for each of the first 13 PBSs in revisions and renovation work concerning service drops and meter installations. Bamboo poles are eliminated when possible. REB Power Use and System Operations gave technical assistance in Dhaka PBS-I and Pabna PBS-III. Policy revisions and drawings of these changes have been completed and submitted to REB for approval and will become a part of 300-19. AGM/MSs and AGM/COMs were called in to Dhaka for special training concerning this matter.

Khan-Elin has a 10 KVA transformer ready to give to REB for testing. They have also submitted a 25 hp and 35 hp three-Phase 230 volt motor to REB for testing and for REB approval.

A new policy has been given to the REB standards committee for their approval of the installation of capacitors in order to maintain 85% or higher power factor on the PBS systems. Drawings and text are ready for printing when REB approval is given.

Power use purchased capacitors from Siemens for testing and training purposes in power factor corrections. Specialized training is planned for each PBS.

Mr. Shofiullah, Krishikal Company Ltd. has 150 high efficiency single-phase motor-pump sets in shipment from the supporting company in U.S.A. The motor-pump sets will be available for use on STWs in the next irrigation season. Motor-pump sets and financing will be independent of REB/PBS.

REB member services/power use provided assistance in the annual meetings of Comilla PBS-II, Pabna -II and Tangail PBS-I.

Fakhri Industrial Works Ltd, Chittagong is in the process of developing single-phase motors of the size 7.5 hp, 5 hp, 3 hp, and 1 hp. REB has requested samples for testing. This company is also in the process of developing phase converters of 15, 20, and 25 hp size.

Two rotary phase converters, one DTW and one LLP, were installed in the Dhaka PBS-I service area. These phase converters are made by utilizing standard 230 volt three-phase motors as rotating transformers.

REB Member Services and Power Use had one Assistant Director assigned to Rajshahi PBS-I from 1 April to 22 April to give guidance and assistance to the AGM/MS and GM in promoting growth of the power use program.

REB Deputy Director Member Services and Power Use has spent most of this quarter as acting GM of Pabna PBS-III.

G. Program Planning

All of the continuing, regular and routine progress reports were prepared and sent to the various Bangladesh Government Agencies. Quarterly reports required by IDA and KFAED were forwarded to these donor agencies.

The Annual Development Program for Fy 1984-85 was prepared and submitted to the Government of Bangladesh for approval. The ADP was approved by the Government on 27 June 1984.

Necessary papers and reports were prepared and submitted to the ERD for visiting delegations from Denmark, the United Arab Emirates and IDA. Each of these agencies have indicated interest in participating in the Rural Electrification Project.

The draft of the Pre-Feasibility study on ACRE-Phase-III project has been completed and is now being reviewed by REB Management.

Modification and revision of the REB Master Plan is being continued by the personnel of the directorate.

Publication of the monthly REB News letter in Bengali and the REB Quarterly news letter in English were made and circulated.

III. ENGINEERING AND TECHNICAL DEVELOPMENT

A. General

Finished inspection in Korea on Distribution and Substation transformers. The third 1667 KVA substation transformer of HICO Company passed the short circuit tests at the Korean Electro Technology Research Institute (KETRI). The first two units failed; the 48 KFAED units now in REB service are designed and built same as those first two units which failed the KETRI test. The HICO Company has made offers to REB about extended warranty and free spare units. REB is awaiting receipt of the KETRI report before making commitments.

If the IDA units are built according to the design, (as proven by test unit No. 3) then the standard warranty applies. During a recent visit, HICO assured REB that the oil level gages, vacuum/pressure gages and mechanical pressure relief gages would be better than those supplied on KFAED 1667 KVA substation transformers.

The inspection of Korean distribution transformers found that the units were generally satisfactory. Some matters were noted for improvement such as ground lugs, installation of LT connector lugs for more separation, better packing crates, better internal grounding of the HT coil, tighter core/coil straps, location of HT bushings, etc. NRECA/CAI inspected HICO and LEE CHUN distribution transformers. The staff of those manufacturers were helpful and knowledgeable; they had REB/ANSI/NEMA specifications and used those specifications according to their understanding.

On the IDA substations, the bidder, Pacific Engineering Company of Seoul has made extensive revisions in view of the KFAED experience, erection and equipment problems. The revisions are based on REB and NRECA/CAI recommendations.

The March, 1984, inspection of the primary 11 KV (H.) insulators at Korea Insulator Company (KRI) did not find any cause for the defective KRI insulators in REB service as the tested insulators were acceptable on a minimum (barely adequate) basis. However in April, 1984, recent tests by REB inspector on newly arrived KRI insulators at Khulna have found defective HT units, both pin type and suspension type. A follow-up inspection in June, 1984, at the KRI plant in Mashan, Korea, again found that the HT insulators meet the test requirements when tested just after production, in the Korean climate. REB is experiencing pole-fires with the KRI units made in 1980 and 1983 and recent post-shipment tests at Khulna indicate future problems. This matter is not resolved and REB should continue to follow-up this problem.

A recent Consultant inspection trip to Taiwan on USAID-143E and 145E IFB's primary 11 KV (HT) insulators found that the manufacturer was not ready with any of the 12,300 remaining 11 KV insulators. The inspector could check only the order for 400 of the 33 KV pin insulators. REB had been advised that the IFB order was ready for inspection. The manufacturer did not have test facilities so tests were made at the Taiwan Power company.

The Taiwan Hardware manufacturer for USAID Bid 17E, IFB 139E was somewhat uncooperative although all the hardware was acceptable.

REB is still trying to obtain the class "C" galvanized 5/16 inch ground wire from NICCO of Calcutta, India. This product was due last June, 1983.

REB has scheduled a test of hardware and conductor accessories by Star Iron of Calcutta, India. This is for USAID Bid, 124, 140 & 146.

REB has considered use of KVA and KVAR metering but complex applications and high costs outweigh the present benefits.

REB and Consultant worked on USAID-Phase II Bid Packages for materials, spare parts, power transformers and substations. The substation design incorporates the experience from KFAED construction. The Bid has been expanded with many details and 18 sheets of drawings; this will assist all the bidders and protect the interest of REB.

REB and Consultant personnel visited local B.I.S.F. insulator plant and found that the HT insulators look acceptable, based on brief, preliminary visual inspection. They were not ready for detailed tests on the primary HT insulators.

Work was done on Bid Packages for Asian Development Bank and for KFAED. There also was discussion concerning engineering and construction standards and specifications with representatives of the Danish Government who visited various REB officials, REB Directors and NRECA/CAI staff.

Some effort has been spent reviewing construction specification drawings to clarify field and material applications.

A list was developed of additions to the Bid documents for review by the REB Technical Standards Committee.

Study was begun on redefining the concept of 11 KV primary three phase backbone feeders to include both 1/0 ACSR and 4/0 ACSR line sections. The present concept includes only the 4/0 ACSR section. If 1/0 ACSR sections are included as "backbone", then the feeders will be longer, will serve more remote areas and will increase the operating and maintenance problems of the PBS. The Consultants have not as yet received the design comparisons from System Engineering and Design to make recommendations on this matter.

Assisted SED with a 3-year "Plan of Action" including a specific outline of scope of activities, training needs and manpower needs. SED staff needs more field experience.

Considerable time was needed to review the Bids on Communication Equipment for IDA Bid 5, IFB 52. Personnel of the Consultants team and in REB Systems Operation assisted in this matter.

REB began a study to obtain "Materials per Mile" based on tabulation of "As Built" staking sheets. This study had been started in 1982/83 but was not completed for lack of manpower. Results of this study will enable SED to use a computer printout to list the materials in each "Invitations for Bid" based on "As Built" experience.

The increasing work of the REB program has required increased engineering support by home office personnel of Commonwealth Associates, Inc.

Time was spent on evaluating bids and equipment of local hardware manufacturers. In general, the local material looks better than the materials offered in 1982 and 1983.

The REB Chief Engineer obtained information about PDB's use of ACSR (with class "A" galvanized steel core wire) in coastal areas. PDB does not know of any severe problems. However, if REB can obtain an aluminum coated steel core wire at competitive cost and it meets other technical requirements, the reduced line loss could favour its use both anti-corrosion and for economic reasons.

PDB also advised that their standard 11 KV insulation level is considered adequate in coastal areas.

REB has compiled PBS records of distribution transformer failures. The records are very incomplete, so definite conclusions are not possible. The Chief Engineer has requested clarifications.

Work was done on comparing losses for distribution transformers and enquiries sent to manufacturers.

SED received some materials for pre-bid qualification. A fuse cutout from Lorenzetti of Brazil readily passed a visual inspection and their test data should be reviewed by SED. A fuse cutout from a Taiwan manufacturer confirmed that REB was correct in rejecting that low bid some months ago.

In late 1982 a Bangladesh Government Organization, "SPARRSO", which has excellent maps of the rural areas based on recent aerial and satellite pictures was contacted. The inquiry has been recently re-initiated because of the benefits offered by use of recent 1983-84 maps. The cost estimates seem reasonable; REB should pursue this matter to make practical use of the modern technology. Better maps will materially assist PBS field surveys, design, planning of line staking, line construction, follow-up operations, maintenance and System expansion.

Reviewed recent sectionalizing studies by local Consulting Engineers and found they need assistance to apply the REB "Sectionalizing Guideline" issued in 1982. The construction advisors find that the Local Consultants need assistance to apply the "Low Tension Design Guide" issued in 1982. The local consultants also need aid with field staking, particularly of PDB takeover.

REB needs a design and construction specification for 33 KV line construction.

B. Substation Construction

The recent completion of Goria Substation completed the list of 26 Substations under US AID Phase one. This Substation was originally to be constructed at Faridganj but because of material shortages it was decided to construct this Substation at Goria where fabrication of steel shortages and other missing items would be much easier. Goria Substation is much closer to Dhaka Warehouse where many spare parts were supplied for construction of Goria Substation. Goria Substation is complete and test energized.

Faridganj Substation is still under construction with very slow progress. The main problem being lack of supervision by the contractor. The contractor is making arrangements to hire a supervisor part time to finish the Substation. This supervisor completed Feni Substation in Noakhali number one.

Kashimpur Substation is completed and test energized. This Substation was a P.D.B. Substation taken over by REB and renovated.

Kushtia number one Substation foundations are near completion.

Construction of Mirsarai Substation in Noakhali number two will be starting soon.

Dinajpur Number one Substation has shown good progress and should be completed in September 1984.

A Substation Construction course was completed in June for four Assistant Engineers. Each Superintendent Engineer assigned one man from his area to attend this course. This should be a step forward when Substation Construction starts in these areas.

Out of 23 Number of 1667 KVA transformers at Khulna, new diaphragms were installed on 19 transformers and pressured with dry nitrogen.

One 1667 KVA transformer is still at the Dhaka Engineering Institute.

See Exhibit L for Substation Summary report.

C. Line Construction

Line construction progress on both US AID and KFAED projects have been hampered by heavy rain and flooding. Material shortage of line construction items continues. New construction and renovation of lines taken over from PDB continues on US AID projects. New construction continues on KFAED projects. Rangpur PBS-I has had their official energization. Line construction has started at Dinajpur and Kushtia PBS's.

REB has requested pre-shipment inspection of construction materials and equipment. Several pre-shipment inspections were made by NRECA/CAI local staff and from the home office. The E & M Deputy Director of Inspection has made some in-country inspections of construction material and equipment. These inspections will improve the quality of material and equipment received for construction. The PBS's have been slow in reporting the results of the insulator tests REB requested. These tests should be completed and the results sent to REB so they can determine the manufacturer and avoid installing defective insulators on the line.

The monthly meetings with the construction advisors and REB have been productive. The trip to the Khulna warehouse has resulted in the construction advisors making recommendations for use of various items.

The construction advisors have worked on material descriptions in the REB item number book and on getting the REB item numbers in the standard specification book. This will help REB, the local consultants and the contractor identify and utilize the different items more readily.

Refer to Exhibit C for line construction summary report.

D. Materials Supply

a) Procurement

The additional responsibility for verification/acceptance of Supplier Performance Guarantee has now been entrusted with this Directorate. Previously this responsibility was with the Finance Directorate.

To continue the effective, efficient performance of the directorate, considering their existing and additional workload responsibilities and to assure the continued flow of Construction Materials to meet the expanding construction needs and schedules in a timely manner, it is essential an officer with finance background be considered for posting in this directorate.

The following are activities of the Procurement Directorate during the second quarter.

USAID Phase-I

Bid Package No. 15R and 16 (Part) - Evaluated total 8 invitations for US\$ 1,381,448.00 and sent to USAID for approval. USAID approved one Invitation for US\$ 138,192.00 for which letter of Intent has been issued. Out of 8 Invitations 7 were awarded to M/S. Pacwood, Philippines. While awaiting for approval from USAID validity of their offer expired and consequently requested the bidder for extension which they regretted. As such other two apparent responsive low bidders were requested for extension which they complied.

USAID Phase-I (Convertible Fund)

Bid Package No. B-2 comprising of 3 invitations for Hardware and Bare Conductor was opened, evaluated and two have been sent to USAID for approval. Work order of 2 invitations for taka 38,55,690/= has been given with the approval USAID.

USAID Phase-I Expansion

Bid Package No. 18E - 6 invitations has been evaluated and sent to USAID for approval. USAID has given approval for 2 invitations out of the 6 for which letter of intent has been issued for US\$ 109,584.00. For other 4 invitations (US\$ 1.9 million) was awarded to M/S. Pacwood Inc. Philippines. While awaiting USAID approval, validity of their offer expired and consequently requested the bidder for extension which they regretted. As such other two apparent responsive low bidders were requested which they complied.

USAID Phase-II

Bid Package No. 03 Eleven invitations for US\$ 2,828,535.50 was evaluated and sent to USAID for approval. USAID gave approval of 9 invitations out of 11 for which letter of intent has been issued.

USAID Small Value Procurement

L/Com has been requested for purchase of Hardware and transformer coils. Requested CAI to obtain quotations for communication equipment, Test instrument and miscellaneous equipment. CAI has floated tender in U.S.A.

Phase-I Extension KFAED

Bid Package No. 9 (Retendered) - 2 invitations of about 2.26 million US\$ was floted, opened, evaluated and sent to KFAED for their approval.

IDA Credit

Bid Package No. 4 (Retendered) - Evaluated 3 invitations for US\$ 582,883.34 and sent to IDA for approval. IDA gave approval for the said invitations for which letter of intent has been issued.

Bid Package No-5 - Evaluated 24 invitations for US\$ 5.7 million and sent to IDA for approval. IDA gave approval on 21 invitations. Award notices have been issued for 21 invitations. Approval for IFB-28 and 49 have not yet been received form IDA.

Bid Package No. 6 - Total of Eight invitation has been opened, evaluated and sent to IDA for their approval. Award notice has also been given for seven invitations amounting to US\$ 2.3 million. Approval for IFB-55 from IDA is yet to be received.

Bid Package No. 7 - (Retendered) One invitation for about US\$ 1.21 million was floated, opened, evaluated and sent to IDA for their approval.

Finnish Grant

- a) Untied : Under untied position of Finnish Grant 13 contracts were approved by FINIDA. As requested by them list of bankers for 13 suppliers was furnished to External Resources Division for sending to FINIDA. However L.C. for above 13 contracts has already been opened by Rupali Bank.

Tender against IFB-24 was opened in June '84. The recommendation of REB for award of contract has already been sent to ERD for taking approval from FINIDA.

For procurement of some line materials under small value procurement quotation were received from CAI/Jackson, USA. REB has recommended awards of contract against IFB-27, 28 and 29 and these have been sent to ERD for taking approval from FINIDA.

- b) Tied: GPC was requested to arrange extension of validity for performance bond submitted by Kimy Stromberg. Kimy Stromberg has accordingly extended the validity. REB has decided to purchase one additional 5 MVA power transformer from Kimy Stromberg. REB has requested ERD to sent their approval to GPC Finland so that the transformer can be shipped along with the transformers originally ordered by REB. ERD has also been requested to take necessary steps so that in future REB can purchase materials directly under Finnish Credit grant.

Asian Development Bank Loan:

A list/grouping of materials to be procured under ADB second tubewell project (Rural Electrification Sub-project) was prepared and sent to ADB for their approval. The approval of ADB has been received in April '84. Draft documents for ADB Bid Package 01 and 02 were prepared and sent to ADB for approval.

- b) Equipment and Material

1. Central Warehouse, Dhaka:

All materials stored in this warehouse have so far been rearranged as per Stores Standard Procedure and worthy steps for proper utilization of all slow-moving items awaiting disposal for long time have been taken during this quarter. All spare parts from Khulna Warehouse have been shifted to this warehouse during the above mentioned period. Steps have been taken to register all spare parts in ledger and streamlining store management of this warehouse. 100% annual physical Inventory for the current year is in progress and scheduled to be completed soon.

2. Central Warehouse, Khulna:

Repair works of broken Jetty No. 2 has been completed and decision for re-construction of Jetty No. 3 has been taken. Construction of staff quarters & Guest house building is in progress. 100% annual physical inventory for the current year is scheduled to be started from 1st of August '84.

3. Central Warehouse, Chittagong:

Construction of Office & Rest house buildings has been completed within scheduled date & that of 'C' & 'E' type staff quarters is in progress. 100% annual physical inventory for this Calendar year is already complete.

E & M

- a) Measures for new stores control devices have introduced with the directives to maintain separate ledger accounts for project store & PBS store in each PBS.
- b) New filing system has been introduced in this Directorate with the idea of ensuring efficient and proper office Management.

- c) Inspection cell is being organised to take up more responsibilities. One room of this office has already been selected for organising a "Material Museum" & proper arrangement of items in this room is under way.
- d) Carrying contract for the financial year 1983-84 is in the process of being awarded. A new system approach has been introduced to get an overall view of the material ordered & that of receipt as efficiently as possible. Insurance Claims totalling 15 (fifteen) have so far been settled with the SDC and the rest are under process of being settled.

INSURANCE CLAIM STATUS AS ON 30-6-84 (USAID FUND)

<u>Serial Number</u>	<u>Subject</u>	<u>Nos.</u>	<u>Amount in US Dollars</u>
1.	Claim Paid	58	2,37,103.01
2.	Claim denied	--	2,314.64
3.	Claim pending	26	2,13,423.14
	Total -	84	4,52,840.79

INSURANCE CLAIM STATUS AS ON 30-6-84 (KFAED FUND)

<u>Serial Number</u>	<u>Subject</u>	<u>Nos.</u>	<u>Amount in US Dollars</u>
1.	Claim paid	2	285,13
2.	Claim denied	6	12,484.13
3.	Claim pending	13	1,32,183.17
	Total -	21	1,44,952.43

INSURANCE CLAIM STATUS AS ON 30-6-84 (IDA FUND)

<u>Serial Number</u>	<u>Subject</u>	<u>Nos.</u>	<u>Amount in US Dollars</u>
1.	Claim paid	--	---
2.	Claim denied	--	----
3.	Clam pending	5	35,608.74
	Total	5	35,608.74

SUMMARY FOR PBS ENGINEERING CONSULTANTS

UP TO JUNE 30, 1984

PBS Name	Dhaka PBS-I	Comilla PBS- I	Sylhet PBS-II	Pabna PBS-III	Rajshahi PBS-I	Jessore PBS-II	Tangail PBS-I	Rajshahi PBS-II	Pabna PBS-II	Pabna PBS-I	Jessore PBS-I	Sylhet PBS-I	Comilla PBS-II	Total for 13 PBS
Engineering Consultants	(R) TSL	PUL	(R) KCL	NIAZ (R) ASSOCI	(R) CEM	(R) CENTURY	KPL	CEM	NIAZ ASSOCI	UPL	(R) PUL	ECB	TSL	
Mapping	100%	97%	100%	97%	100%	100%	95%	100%	95%	97%	98%	93%	97%	
Staking PDB Inventory	100%	97%	100%	100%	100%	100%	95%	100%	90%	90%	90%	90%	97%	
Voltage Drop Study	100%	97%	100%	97%	100%	100%	95%	100%	85%	95%	98%	90%	95%	
Protection Study	100%	95%	100%	95%	100%	100%	95%	100%	85%	95%	98%	90%	95%	
Contracts *	31	15	8	7	9	8	11	8	7	5	9	7	11	
Mileage * Contracted	480	660	400	350	450	400	451	400	325	250	412	350	550	

(R) Denotes Retainer Consultant

* Excludes PDB Renovation Contracts & Mileage.

EXHIBIT - A

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SUMMARY REPORT FOR PBS ENGINEERING CONSULTANTS

UP TO JUNE 30, 1984

KFAED PBS Name	Rangpur	Mymensingh	Khulna	Noakhali	Kustia	Dinajpur	Barisal	IDA			
	PBS-I	PBS-I	PBS-I	PBS-I	PBS-I	PBS-I	PBS-I	Faridpur PBS-I	Barisal PBS-II	Noakhali PBS-II	Dinajpur PBS-II
Engineering Consultants	NAL	KPL	CENTURY	KCL	TECHSULT	ECB	ECB	KPL	TSL	PUL	UUL
Mapping	90%	80%	80%	85%	85%	80%	10%	70%	70%	40%	-
Staking PDB Inventory	50%	50%	40%	50%	50%	40%	10%	30%	20%	20%	-
Voltage Drop Study	80%	80%	70%	70%	70%	50%	-	30%	10%	10%	-
Sectionalizing Study	80%	70%	70%	70%	60%	50%	-	30%	10%	10%	-
Contracts *	5	5	5	5	2	4	-	2	1	2	-
Mileage * Contracted	200	200	200	200	75	125	-	50	25	50	-

* Excludes PDB Renovation Contracts & Mileage.

EXNABIT - B

LINE CONSTRUCTION PROGRESS REPORT
TOTAL PROGRESS TO DATE JUNE 30, 1984

Page 1 of 2

NAME OF PBS	TYPE OF PROJECT	NO OF POLES ERECTED		MILES OF LINE CONSTRUCTION COMPLETED										MILES OF LINE REMOVED	MILES OF LINE ENERGIZED		NO OF STAKED CONSUMERS IN COLUMN E-G-I NEW CONSUMERS IN COL F-H-J	NO OF PDB CONSUMERS IN COLUMN F-H-J	NO OF SERVICE INSTALLED	
		NEW CONSTN	RENO-VATION	3-PHASE HT		1-PHASE HT		SECONDARY LT		UNDER BUILD		SERVICE DROPS			NEW CONSTN IN COL E-G-1	RENO-VATION IN COL F-H-J-L.N.			NEW CONSTN IN COL E-G-I	RENOVA TED IN COL F-H-J
				NEW CONSTN	RENO-VATION	NEW CONSTN	RENO-VATION	NEW CONSTN	RENO-VATION	NEW CONSTN	RENO-VATION	NEW CONSTN	RENO-VATION							
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
Comilla-I	USAID	13436	352	222	17	97	1	248	13	37	1	78	2	9	494	15	17761	629	6620	223
Comilla-II	USAID	7585	560	162	32	19	3	143	13	52	3	30	11	-	306	57	13631	1401	2227	1233
Dhaka-I	USAID	10601	682	134	64	109	10	226	24	54	6	94	5	-	470	88	13896	471	7629	396
Jessore-I	USAID	11581	877	196	49	115	1	169	7	42	1	83	10	24	590	66	17648	1603	6982	893
Jessore-II	USAID	10328	790	158	18	114	4	177	16	110	7	102	9	5	660	54	15194	258	8557	258
Pabna-I	USAID	4828	435	91	58	44	3	79	17	18	6	13	10	-	192	79	6309	1985	1213	1147
Pabna-II	USAID	6461	465	107	7	61	1	110	7	31	3	48	10	4	253	13	7063	9	4182	466
Pabna-III	USAID	7728	1046	154	46	59	7	151	21	39	5	52	12	2	431	66	11171	1147	4736	1432
Rajshahi-I	USAID	9408	471	203	38	91	1	122	10	60	2	39	5	5	406	46	10340	523	7184	615
Rajshahi-II	USAID	8116	651	135	33	94	2	121	14	55	5	47	8	-	418	52	11157	771	7192	620
Sylhet-I	USAID	6994	162	120	2	43	-	107	-	21	-	24	-	-	222	16	12387	36	3829	36
Sylhet-II	USAID	8820	49	133	21	42	1	147	1	14	-	60	1	-	348	22	10369	-	5726	30
Tangail-I	USAID	10993	74	216	4	86	-	146	2	40	-	79	-	6	458	6	11196	597	5562	816
TOTAL		116879	6614	2031	389	974	34	1946	145	573	39	749	83	55	5248	580	158132	9430	71639	8165

EXHIBIT - C

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LINE CONSTRUCTION PROGRESS REPORT
TOTAL PROGRESS TO DATE: JUNE 30, 1984

Page 2 of 2

NAME OF PBS	TYPE OF PROJECT	NO OF POLES ERECTED		MILES OF LINE CONSTRUCTION COMPLETED										MILES OF LINE RENOVED	MILES OF LINE ENERGIZED		NO OF STAKED CONSUMERS IN COLUMN E-G-I NEW CONSUMERS IN COL F-H-J	NO OF PDB CONSUMERS IN COL F-H-J	NO OF SERVICE INSTALLED	
		NEW CONSTN	RENO-VATION	3-PHASE HT		I-PHASE HT		SECONDARY LT		UNDER BUILD		SERVICE DROPS			NEW CONSTN IN COL F-G-I K-N	RENO-VATION IN COL F-H-J L-N			NEW CONSTN IN COL E-G	RENOVATED IN COL F-H-J
				NEW CONSTN	RENO-VATION	NEW CONSTN	RENO-VATION	NEW CONSTN	RENO-VATION	NEW CONSTN	RENO-VATION	NEW CONSTN	RENO-VATION							
A	B	C	D	E	F	G	H	I	K	J	L	M	N	O	P	Q	R	S	T	U
Khulna-I	KFAED	4191	-	51	-	26	-	60	-	29	-	12	-	-	145	-	4522	-	1613	-
Mymensingh-I	KFAED	3942	-	24	-	29	-	39	-	16	-	9	-	-	87	-	4339	-	799	-
Noakhali-I	KFAED	3516	-	47	-	29	-	36	-	6	-	12	-	-	101	-	5493	-	1062	-
Rangpur-I	KFAED	3604	-	58	-	19	-	28	-	10	-	11	-	-	109	-	3249	-	1049	-
Dinagpur-I	KFAED	751	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kushtia-I	KFAED	660	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL		16664	4	180	-	103	-	163	-	61	-	44	-	-	442	-	17603	-	4523	-
TOTAL	USAID	116879	6614	2031	389	974	34	1946	145	573	39	749	83	55	5248	580	158132	9430	71639	8165
TOTAL	KFAED	16664	4	180	-	103	-	163	-	61	-	44	-	-	442	-	17603	-	4523	-
GRAND TOTALS		133543	6618	2211	389	1077	34	2109	145	634	39	793	83	55	5690	580	175735	9430	76162	8165

EXHIBIT-C

FIELD MAN MONTH
EXPATRIATE STAFFING AS OF JUNE 30, 1984

Position/Name	D/M/Y	D/M/Y	Contract Man Month	Individual Man Months	Position Man Months Utilized	Position Man Months Remaining
	Arrival Date	Departure Date				
TEAM LEADER			72			
E. Gaither	11-1-78	2-12-81		42.7	71.4	.6
J. Heifner	1-12-81			28.7		
ENGINEERING ADVISOR			72		72.0	-0-
E. Leffler	11-01-78	12-08-79		19.0		
W. McCormick	12-08-73	20-12-80		16.0		
C. Ham	13- 1-81	14-03-82		14.0		
D. Pierce	25- 5-82	1- 1-83		7.2		
R. Westenbroek	11- 2-83			15.8		
FINANCE ADVISOR			72		66.5	5.5
R. Porter	28-04-78	03-03-80		20.6		
R. Meyer	20-05-80			45.9		
INSTITUTIONAL TRAINING ADVISOR			72		66.1	5.9
J. Leming	12- 9-78			66.1		
TECHNICAL TRAINING ADVISOR			54		56.8	(2.8)
I. Holler	31- 7-79	1- 5-82		32.6		
E. Wheeler	11- 5-82			24.2		
POWER USE ADVISOR			46	34.4	58.1	(12.1)
J. E. Kelly	22-05-80	1- 7-83		23.7		
I. Holler	1- 5-82					
FEASIBILITY STUDY ADVISOR			30			
K. Cureton	11-10-80			41.9	41.9	(11.9)
EVALUATION SPECIALIST			8		2.9	5.1
E. Mouldenhauer	19-04-80	15-07-80		2.9		
DEVELOPMENT ADVISOR			48		49.7	(1.7)
E. Moody	25- 4-78	31- 5-79		11.6		
C. Pressey	25- 4-78	30- 8-81		38.1		
MANAGEMENT ADVISOR			242		229.6	12.4
J. Heifner	09-03-79	1-12-81		30.2		
E. Moody	01-06-79	30-10-81		29.0		
C. Kimball	17-06-80	11- 5-82		22.5		
D. Knight	15-09-81			32.8		
E. McLeod	15-09-81	6-10-83		24.3		
V. Orr	8- 1-82			27.7		
B. Schafer	21- 5-82			23.7		
E. Thiessen	13- 7-82	3- 2-84		18.1		
M. Manon	18- 1-83			17.1		
B. Biggers	9- 3-84			3.7		
H. Smith	15-06-84			0.5		

Position/Name	D/M/y	D/M/y	Contract Man Month Individual	Man Months Position Man Months Utilized	Position Man Months Remaining
	Arrival Date	Departure Date			
SUBSTATION ENGINEER			6	6.0	0
J. Teener	09-05-78	07-11-78			
DISTRIBUTION ENGINEER			60	7.6	
G. Pomeroy	06-05-78	19-12-78		22.7	(4.2)
E. Leffler	13-08-79	30-06-81		33.9	
C. Burfoot	07-07-81				
DESIGN ENGINEER, CONSTRUCTION			42	7.9	36.2
J. Halfacre	13-04-79	12-08-79		6.1	5.8
H. Drahos	23-02-80	26-08-80		4.5	
R. Westenbroek	19-08-80	13-01-81		17.7	
R. Byre	6-7-82	6-01-84			
SUBSTATION ADVISOR			18	17.5	0.5
R. Olson	28-06-80	11-12-81			
MATERIAL HANDLING ADVISOR			66	20.0	
R. Nesbit	05-06-78	02-10-80		11.0	(3.5)
C. Ham	10-02-80	11-1-81		12.0	
J. Wright	10-01-81	10-01-82		26.5	
L. Herriott	23-02-82				
CONSTRUCTION SUPERINTENDENT			58	39.0	19.0
J. Zimmerman	30-03-79	29-06-82			
CONSTRUCTION ADVISOR (Line)			250	1.5	
P. Smith	16-10-79	29-11-79		15.7	268.1
F. Bevins	02-9-79	14-12-80		18.0	(18.1)
H. Earl	01-12-79	12-06-81		34.6	
K. Breuning	11-12-79	10-12-82		17.9	
L. Wolfe	26-01-80	14-07-81		16.4	
R. Nesbit	02-10-80	30-06-81		50.0	
R. Carl	06-02-80			41.0	
C. Strampher	01-03-81			1.1	
E. Reese	02-10-81	06-11-81		21.6	
P. Allard	16-02-82			21.0	
J. Hardman	31-8-82			17.8	
J. Zimmerman	7-1-83			11.5	
B. Sisco	21-1-83	6-1-84			

Position/Name	D/M/Y	D/M/Y	Contract Man Month	Individual Man Months	Position Man Months Utilized	Position Man Months Remaining
	Arrival Date	Departure Date				
SHORT TERM SPECIALISTS			42		24.5	17.5
J. Taylor	24-01-78	06-02-78		0.5		
J. Scoltock	09-12-78	02-06-79		4.8		
C. Gruenberg	11-07-79	07-10-79		2.9		
C. Moon	25-01-80	18-04-80		2.8		
J. Taylor	26-04-80	27-05-80		1.0		
J. Scoltock	05-03-80	26-05-80		0.8		
W. Floris	05-03-80	26-05-80		0.8		
P. Costas	05-03-80	26-05-80		0.8		
J. Taylor	01-07-80	17-07-80		0.5		
J. Nelson	30-11-80	16-12-80		0.5		
J. Gates	06-12-80	16-12-80		0.5		
A. Lyman	24-04-81	29-05-81		1.2		
R. Bates	07-08-81	08-11-81		3.0		
A. Lyman	01-06-82	02-07-82		1.0		
R. Bates	21-02-84	20-04-84		2.0		
J. McGill	18-05-84			1.4		
TOTALS			1258	1240	1240	18

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RURAL ELECTRIFICATION BOARD
FINANCIAL AND STATISTICAL REPORT
FOR THE YEAR ENDING 30TH JUNE, 1984 (Provisional)

REB Form No. 551
Rev. (11-79)

Page: 1 of 5

INSTRUCTION: Round all amounts to nearest Taka

PART A STATEMENT OF OPERATIONS

I T E M	YEAR TO DATE		
	LAST YEAR	THIS YEAR	BUDGET
1. <u>Non-Operating Revenues:</u>			
i. Revenue From Non Utility Operations	6,36,273	5,63,922	-
ii. Sale of Tender document	5,52,305	6,59,385	4,00,000
iii. Miscellaneous Income	64,51,529	1,21,03,240	6,00,000
iv. Interest Income	16,84,839	42,96,935	40,00,000
v. TOTAL NON-OPERATING REVENUE (i to iv)	93,24,946	1,76,23,482	50,00,000
Operating Expenses :			
2. <u>Pay & Allowances.</u>			
i. Officers Pay	20,55,333	23,97,589	23,00,000
ii. Staff Pay	7,46,066	8,61,937	7,75,000
iii. Master Roll Salary	7,02,529	5,56,695	5,25,000
iv. Honourarium	1,95,768	1,95,972	2,50,000
v. Other Allowance	18,24,882	20,46,531	18,00,000
vi. TOTAL PAY & ALLOWANCES (i to v)	55,24,578	60,58,724	56,50,000
3. <u>General Office Expenses :</u>			
i. Utilities	3,14,344	3,94,812	5,50,000
ii. Transportation M & O.	17,58,017	23,40,337	20,00,000
iii. Books & Periodicals	28,171	34,071	51,000
iv. Building Services	28,212	31,296	25,000
v. Communications Services	3,24,253	5,24,367	4,50,000
vi. Membership dues, fees & Legal fees	-	2,000	-
vii. Office Supplies & Expenses	71,257	1,34,233	80,000
viii. Travel Expenses (TA/DA)	5,83,310	6,65,431	7,30,000
ix. Printing form Stationery & Postage	9,52,977	6,92,643	10,00,000
x. Miscellaneous Office Expense	2,88,368	1,45,958	2,00,000
xi. TOTAL GENERAL OFFICE EXPENSES (i to x)	43,48,909	49,65,148	50,86,000
4. <u>Outside Services Employed:</u>			
i. Others (Other then Foreign Consultants)	2,58,335	24,000	50,000
5. Property Insurance	-	-	-
6. Injury & Damages	-	-	-
7. Employee Pension & Benefits	3,65,818	4,02,617	5,10,000
8. Training Expenses	8,324	56,451	1,00,000

EXHIBIT - E

RURAL ELECTRIFICATION BOARD
FINANCIAL AND STATISTICAL REPORT
FOR THE YEAR ENDING 30TH JUNE, 1984 (Provisional)

REB Form No. 551
Rev. (11-79)

Page: 2 of 5

INSTRUCTION : Round all amounts to nearest Taka

PART A STATEMENT OF OPERATIONS

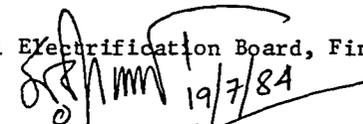
I T E M	YEAR TO DATE		
	LAST YEAR	THIS YEAR	BUDGET
9. Gen. Advertising Expenses	3,50,814	1,51,062	1,25,000
10. Miscellaneous General Expenses	2,79,782	5,21,278	50,000
11. Rents:	-	-	-
a) Office	17,74,539	19,07,935	18,00,000
b) Residence	7,95,240	8,53,410	10,00,000
12. Maintenances of Gen. Plant	2,66,160	3,70,125	2,50,000
13. Income Tax-Officers & Staff	69,260	97,667	80,000
14. SUB TOTAL (2 to 13)	1,38,41,705	1,54,08,417	1,47,01,000
15. Depreciation	20,31,160	27,60,000	28,00,000
16. TOTAL OPERATING EXPENSES (14 + 15)	1,58,72,865	1,81,68,417	1,75,01,000
17. NET REB MARGIN (1-16)	(65,47,919)	(5,44,935)	(1,25,01,000)
18. Interest Expense	86,73,939	1,53,82,776	-
19. TOTAL EXPENSES : (16+18+19+20)	2,45,46,804	3,35,51,193	-
20. NET MARGIN AFTER INTEREST	(1,52,21,858)	(1,59,27,711)	-

EXHIBIT - E

CERTIFICATION

I hereby certify that the entries in this Report are in accordance with the accounts and other records of the Rural Electrification Board, Finance Directorate and reflect the status of the account to the best of my knowledge and belief.

Date: July 19, 1984.


 (Md. Raquibul Husain)
 Director, Finance

RURAL ELECTRIFICATION BOARD
PART B. BALANCE SHEET
AS AT 30TH JUNE, 1984 (Provisional)

Page: 3 of 5

<u>ASSETS AND OTHER DEBITS</u>	<u>LAST YEAR</u>	<u>THIS YEAR</u>	<u>ASSETS AND OTHER DEBITS</u>	<u>LAST YEAR</u>	<u>THIS YEAR</u>
<u>Plant in Service</u>					
<u>General Plant</u>					
1. Land	92,43,111	1,41,67,351	33. Cash-General Fund-Non-Convertible	20,88,869	25,64,742
2. Structures & Improvements	47,31,910	1,91,40,102	34. Total Cash-Loan & Grants USAID(32 to 33)	23,31,473	32,97,087
3. Office Furniture & Equipments	60,59,850	65,23,168	35. Working Funds	22,49,296	22,63,398
4. Transportation Equipment	1,04,33,362	1,17,31,368	36. Temporary Cash Investments	-	-
5. Stores Equipment	-	-	<u>Notes Receivable</u>		
6. Tools Shop and Garage Equipment	18,78,672	19,03,665	37. PBS-Operating Fund:	2,57,76,486	3,15,95,762
7. Laboratory Equipment	6,65,348	6,92,954	38. PBS-Notes Receivable	32,93,09,324	75,82,96,880
8. Power Operated Equipment	-	-	39. PBS-House Wiring Materials	1,35,17,807	1,07,37,464
9. Communications Equipment	10,968	7,83,071	40. Total Notes Receivable(37 to 39)	36,86,03,617	80,06,30,106
10. Miscellaneous Equipment	12,45,263	14,64,682	<u>Accounts Receivable-Net</u>		
11. Other Tangible Property	2,938	4,939	41. Customers	-	-
12. Total General Plant (1 to 11)	3,42,71,422	5,64,11,300	42. Reimbursable Jobs	-	-
<u>Construction Work in Progress:</u>			<u>Employees Accounts Receivable-Net</u>		
13. Line Construction	34,61,91,112	10,52,53,836	43. Advance CPF	46,692	31,179
14. PBS Substation	3,33,21,764	60,79,338	44. Advance Pay	24,469	44,603
15. PBS Complex	1,33,72,864	16,76,69,626	45. Advance TA/DA	1,24,391	1,37,584
16. PBS Consultancy	46,30,94,700	19,98,64,723	46. Advance Bicycle	74,998	53,735
17. PBS Warehouse	1,06,21,785	19,07,586	47. Advance Motor Cycle	8,990	8,990
18. Total Construction Work-in-Progress(13 to 17)	86,66,02,225	48,07,75,109	48. Other Temporary Advance	7,18,253	13,87,552
19. Total Utility Plant (12 + 18)	90,08,73,647	53,71,86,409	49. Total Employees Accounts Receivable(43 to 48)	10,57,793	17,03,643
20. Accumulated Provision for Depreciation and Ammortization (Utility Plant)	(87,59,839)	(1,15,19,839)	<u>Materials and Supplies:</u>		
21. Net Utility Plant (19 - 20)	89,21,13,808	52,56,66,570	50. Common Stores	75,27,441	75,67,647
<u>Other Property and Investments:</u>			51. Project Stores	33,86,57,590	57,95,18,702
22. Non-Utility Plant	-	-	52. Stores Expenses Undistributed	(67,81,904)	14,44,13,442
23. Accumulated Provision for Depreciation and Ammortization (Non-utility Plant)	-	-	53. Total Materials & Supplies	33,94,03,127	73,14,99,791
24. Other Investments	4,500	4,500	<u>Prepayments</u>		
25. Special Funds	2,16,18,940	1,86,75,481	54. Insurance	25,64,754	62,31,484
26. Total Other Property & Investments(22 to 25)	2,16,23,440	1,86,79,981	55. Rents	8,39,019	4,32,966
<u>Current & Accrued Assets</u>			56. Taxes	6,59,85,922	13,20,83,286
<u>Cash-General Fund Accounts</u>			57. Interest	-	-
27. Cash-General Fund Accounts	61,76,725	3,04,202	58. Mobilisation Advance	-	-
28. Cash-Savings Accounts	2,02,88,218	9,85,33,930	59. Advance to Supplier	-	-
29. Cash-Payroll Account	-	-	60. Miscellaneous	91,55,370	1,25,74,380
30. Cash-Construction Accounts	-	-	61. Total Prepayments (54 to 60)	7,85,45,065	15,13,22,116
31. Total Cash-General Fund Accounts(27 to 30)	2,64,64,943	9,88,38,132	62. Other Current & Accrued Assets	-	-94,862
<u>Cash-Loan and Grants US AID</u>			63. Total Current & Accrued Assets(31+34 to 36+40 to 42+49+53+61+62)	81,86,55,314	178,96,49,135
32. Cash-General Fund-Convertible	2,42,604	7,32,345	64. Deferred Debits	20,82,906	26,31,930
			65. Total Assets & Other Debits(21+26+63+64)	173,44,75,468	233,76,27,616

EXHIBIT-E

RURAL ELECTRIFICATION BOARD
PART B. BALANCE SHEET
AS AT 30TH JUNE, 1984

(Provisional)

Page: 4 of 5

<u>LIABILITIES AND OTHER CREDITS</u>			<u>LIABILITIES AND OTHER CREDITS</u>		
	LAST YEAR	THIS YEAR	Miscellaneous Current and Accrued Liabilities	LAST YEAR	THIS YEAR
<u>Capital Investment or Donated Capital</u>					
66. Government Grants	78,34,54,000	101,70,29,000	90. Accrued Payroll	-	-
67. U.S. AID Grants	54,48,74,271	59,08,21,296	91. Accrued CPF	14,53,007	20,15,938
68. Other Donated Capital	-	-	92. Accrued Benevolent Fund	96,396	1,32,719
69. Total Capital Investment or Donated Capital (66 to 68)	132,83,28,271	160,78,50,296	93. Accrued Group Insurance	-	95
70. Retained Earnings-Prior Year	(34,91,95,327)	(5,21,94,974)	94. Accrued House Rent	-	-
71. Operating Retained Earning-Current Year	(1,52,21,858)	(1,59,27,711)	95. Other Current and Accrued Liabilities	1,15,52,833	64,66,146
72. Non-operating Retained Earnings	31,22,22,211	-	96. Total Miscellaneous and Accrued Liabil- ities (90 to 95)	1,31,02,236	86,14,898
73. Total Retained Earning-Equities	(5,21,94,974)	(6,81,22,685)	97. Total Current and Accrued Liabilities (83+86+89+96)	2,86,38,104	5,69,13,105
74. Total Retained Earnings & Equities(69+73)	<u>127,61,33,297</u>	<u>153,97,27,611</u>			
<u>Long-Term Debt</u>			<u>Deferred Credits & Operating Reserves</u>		
75. Government Loans	-	-	98. Customer Advances	-	-
76. Foreign Loan	42,29,27,857	69,26,29,357	99. Other Deferred Credits	67,76,210	4,83,57,543
77. Interest Accrued Deferred Loans	-	-	100. Operating Reserves	-	-
78. Total Long Term Debit (75 to 77)	<u>42,29,27,857</u>	<u>69,26,29,357</u>	101. Total Deferred Credits & Reserves (98 to 100)	67,76,210	4,83,57,543
<u>Current and Accrued Liabilities</u>			102. Total Liabilities and other Credits (74+78+97)	173,44,75,468	233,76,27,616
79. Notes Payable	-	-			
80. Accounts Payable	-	2,93,67,673	<u>RATIOS</u>		
81. Customer Deposits	1,55,35,868	1,89,30,534	A. Current Assets to Current Liabilities Ratio (63+26- (37+38+41) ÷ (97+99)	14:1	10:1
82. Taxes Accrued	-	-	B. Margin as % of Assets (71 ÷ 65) X100	- 1%	(-)0.68%
83. Total Payable (79+82)	<u>1,55,35,868</u>	<u>4,82,98,207</u>	C. Long Term Debts as % of Plant 78 ÷ (18+38) X100	35%	56%
<u>Interest Accrued</u>					
84. U.S. AID Loans	-	-			
85. Other	-	-			
86. Total Interest Accrued (84+85)	-	-			
<u>Taxes and Duties Payable</u>					
87. Customs Duty	-	-			
88. Income Tax Payable	-	-			
89. Total Taxes and Duties Payable(87+88)	-	-			

EXHIBIT - E

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RURAL ELECTRIFICATION BOARD
STATEMENT OF SOURCES AND APPLICATION OF FUNDS
AS AT 30TH JUNE, 1984

Page: 5 of 5

(Provisional)

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Financial Statement :

Line No.	Sources	Last Year	This Year	1983/1984
	<u>Internal Sources of Funds:</u>			
BS.70+OS17	Operating Income (Before interest on borrowing)	(43521)	(52740)	(9219)
BS.20	Depreciation.	8760	11520	2760
	Repayment of PBS Loans	-	-	-
	Internal Sources of Funds	<u>(34761)</u>	<u>(41220)</u>	<u>(6459)</u>
	<u>Debt Service</u>			
	Amortization	-	-	-
OS.20	Interest on Borrowing	(8674)	(15383)	(6709)
	Total Debt Service	<u>(8674)</u>	<u>(15383)</u>	<u>(6709)</u>
	Net Internal Sources of Funds	<u>(43435)</u>	<u>(56603)</u>	<u>(13168)</u>
	<u>Capital Raised</u>			
BS.67	US AID Grant	544874	590821	45947
BS.66	G.O.B. Contribution to equity	783454	1017029	233575
BS.76	Borrowing	422928	692629	269701
	Total Capital Raised	<u>1751256</u>	<u>2300479</u>	<u>549223</u>
	Total Sources	<u>1707821</u>	<u>2243876</u>	<u>536055</u>
	<u>Applications:</u>			
BS.40	PBS Loans Sanctioned	368604	800630	432026
BS.18	Development Plan Work-in-Progress	866602	480775	(385827)
BS.12	REB's Capital Expenditures	34271	56411	22140
BS.26	Special Funds & Investments	21624	18680	(2944)
BS.64-101	Net Deferred Charges	(4693)	(44726)	(40033)
BS.49+53+61-97	Working Capital Other than Cash	390368	827707	437339
BS.31+35	Cash General & Working Fund	28714	101102	72388
BS.34	Cash Loan & Grant U.S.A.	2331	3297	966
	Total Applications	<u>1707821</u>	<u>2243876</u>	<u>536055</u>

EXHIBIT - E

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RURAL ELECTRIFICATION PROJECT (388-0021)

Summary of Project Expenditures

As at 30th June, 1984 \$000

	BUDGET				COMMITTED OR IN PROCESS				UNEARMARKED BALANCE				
	FUNDS		GOB FUNDS		FUNDS		GOB FUNDS		FUNDS		GOB FUNDS		TOTAL
	FX	LC	LC	TOTAL	FX	LC	LC	TOTAL	FX	LC	LC	TOTAL	
I. CONSTRUCTION COMMODITIES													
1. Lines	24651	2550	10835	38036	36919		8141	45060	(12268)	2550	2694	(7024)	
2. Line Rehabilitation	1160		767	1927			197	197	1160		570	1730	
3. Transformers	3574		500	4074	7017		128	7145	(3443)		372	(3071)	
4. Line Protection	703			703	1039			1039	(336)			(336)	
5. Services	8980			8980	1431			1431	7549			7549	
6. Street Lighting	143			143	142			142	1			1	
7. Substations	4206		1497	5703	4834		1192	6026	(628)		305	(323)	
8. Spares	400			400				400	400			400	
9. Construction Equipment	2305			2305	2801			2801	(496)			(496)	
10. General Plants	1345		6183	7528	579		11221	11800	766		(5038)	(4272)	
11. Inflation	2456	450		2906					2456	450		2906	
Sub Total	49923	3000	19782	72705	54762		20879	75641	(4839)	3000	(1097)	(2936)	
II. TECHNICAL ASSISTANCE													
1. Local Consultant			3695	3695			3338	3338			357	357	
2. Consultant	8735	2863	20	11618	10387		41	10428	(1652)	2863	(21)	1190	
3. REB Training	123		260	383			265	265	123			118	
4. Evaluation	250			250	250			250					
Sub Total	9108	2863	3975	15946	10637		3644	14281	(1529)	2863	331	1665	
III. SUPPORT COMMODITIES													
1. Consultants	275	1400		1675	1601			1601	(1326)	1400		74	
2. REB Office			3821	3821			3221	3221			600	600	
3. Vehicles	231		547	778	341		501	842	(110)		46	(64)	
4. Vehicle Maintenance	77	300		377					77	300		377	
5. Training Equipment	75			75	129			129	(54)			(54)	
6. Inflation	48			48					48			48	
Sub Total	706	1700	4368	6774	2071		3722	5793	(1365)	1700	646	981	
IV. PROJECT LOANS													
1. Housewiring			4500	4500			1485	1485			3015	3015	
2. Small Industries													
3. Inflation													
4. PBS Op. Fund			1733	1733			2356	2356			(623)	(623)	
Sub Total			6233	6233			3841	3841			2392	2392	
V. CONTINGENCY	2000		671	2671					2000		671	2671	
VI. TAXES & DUTIES													
1. Taxes & Duties on Imp.			8848	8848			14280	14280			(5432)	(5432)	
2. Expatriate Income Tax			2200	2200			2497	2497			(297)	(297)	
3. Interest during Cons.			731	731			3229	3229			(2498)	(2498)	
Sub Total			11779	11779			20006	20006			(8227)	(8227)	
TOTAL PROJECT	61737	7563	46808	116108	67470		52092	119562	(5733)	7563	(5284)	(3454)	

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QUARTERLY SHIPPING REPORT JUNE 30, 1984

INV. NO.	L/COM.NO.	BENEFICIARY	AMOUNT	PRODUCT	SHIPPING DOCUMENTS RECEIVED	50%		100%		% SHIPPED RECEIVED	OR L/COM EXPIRES	ACTION REQUIRED
						TO BE SHIPPED	SHIPPED	TO BE SHIPPED	SHIPPED			
01	388-01204	Ohm International	672116.69	Line Hardware	Yes	Aug-30-79	May-21-79	Oct-01-79	Dec-05-79	100%	Sept-30-81	
02	388-01210	Gould World Trade	81472.49	Insulators-Pin & Spool	Yes	Jun-03-79	Jun-04-79	Sep-02-79	Jun 23 79	100%	Completed	
03	388-01204	Ohm International	145730.85	Insulators-Suspension	Yes	Jun-07-79	May-21 79	Sep-06 79	May-21-79	100%	Sep-30-81	
04	388-01204	Ohm International	1186650.56	Bare Conductor	Yes	Oct-30-79	May-15-79	Jun-30-80	Sep-09-80	100%	Sep-30-81	
05	388-01211	Pirelli Cable	129842.50	Insulated Conductor	Yes	Jun-03-79	Oct-08-79	Sep-02-79	Jun-21-80	100%	Completed	
06	388-01204	Ohm International	85386.04	Conductor Accessories	Yes	Aug-30-79	Jul-09 79	Oct-15-79	Dec-07-79	100%	Sep-30-81	
07	388-01211	Pirelli Cable	31334.10	Cable & Accessories	Yes	Jun-23-79		Sep-18-79	Feb-28-80	100%	Completed	
08	388-01208	Dae Woo Industrial	491571.00	Transformers	Yes	Aug-30-79	Apr-30-79	Mar-30-79	Oct-31-79	100%	Completed	
09	388-01204	Ohm International	200156.00	Sectionalizing Devices	Yes	Jun-31-79	May-23-79	Sep-22-79	Oct-16-79	100%	Sep-30-81	
10	388-01209	Burndy Corp.	41926.00	Connectors	Yes	Jun-03-79	Aug-22-79	Sep-02-79	Oct-22-79	100%	Completed	
11	388-01206	General Electric	49817.99	Regulators	Yes	Jun-18-79	Oct-17-79	Oct-17-79	Oct-29-79	100%	Completed	
12	388-01207	Westing House	34262.00	Street L ght Equipment	Yes	Jun-02-79	May-30-79	Sep-01-79	May-30-79	100%	Completed	
13	388-01205	Southwire	123485.30	Ground & Gry Wire	Yes	Jun-02-79	Jul-13-79	Sep-01-79	Jul-13-79	100%	Completed	
16	388-01213	General Electric	3988279.64	Substations	Yes	Apr-30-79	Dec-12-79	Jul-01-80	May-16-80	100%	Jun-30-81	
17	388-002103	I.T.T. Export	255869.42	Tools	Yes	May-29-79	Jun-08-79	Aug-26-79	Dec-06-79	100%	Completed	
18	388-002106	C.A.I	29230.47	Office & Tng.Equip.	Yes				Nov-28-79	100%	Completed	
20A	388-002105	C.A.I	49519.10	Jeeps	Yes				Oct-23-79	100%	Completed	
20B	388-002105	C.A.I	79683.04	Trucks	Yes				Oct-23-79	100%	Completed	
21A	388-002103	I.T.T. Export	22844.00	2-Wheel Pole Trailers	Yes	Jul-28-79	Jun-03-79	Oct-26-79	Jun-08-79	100%	Completed	
21B	388-002103	I.T.T. Export	177774.00	1 1/2 Ton Trucks	Yes	Jul-28-79	Sep-09-79	Oct-26-79	Sep-09-79	100%	Completed	
21C	388-002105	C.A.I.	128813.87	Truck Tractors	Yes				Jul-31-79	100%	Completed	
21D	388-002105	C.A.I.	48792.56	10 Ton Pole Trailers	Yes				Aug-30-79	100%	Completed	
21E	388-002105	C.A.I	87295.00	Farm Tractors	Yes		Nov-30-79		Nov-30-79	100%	Completed	
22A	388-002102	Hyster	62092.00	Lo-Boy Trailers	Yes	May-29-79	May-18-79	Aug-26-79	May-18-79	100%	Completed	
22B	388-002105	C.A.T.	21893.63	Farm Wagons	Yes				Aug-27-79	100%	Completed	
23A	388-002102	Hyster	55252.83	Fork Lifts	Yes	Jul-28-79	Sep-19-79	Oct-26-79	Oct-26-79	100%	Completed	
23B	388-002101	Grove	365530.33	Granes	Yes	Jul-23-79	Jun-06-79	Oct-26-79	Jun-06-79	100%	Completed	
25	388-002104	Motorola	238769.40	Communication Equipment	Yes	Jul-23-79	Aug-20-79	Oct-16-79	Nov-19-79	100%	Jun-30-82	
26	388-01214	Koppers Co.	2845140.00	35-5-ft.Wood Poles	Yes	Jul-16-79	Jul-02-79	Oct-10-79	Oct-26-79	100%	Jun-30-81	
27	388-01212	Koppers Co.	605740.00	30 ft.Wood Poles	Yes	Jul-02-79	Jul-02-79	Sep-30-79	Oct-26-79	100%	Completed	
28	388-01212	Koppers Co.	139265.00	Crossarms	Yes	Jul-02-79	Jul-02-79	Sep-30-79	Oct-26-79	100%	Completed	
29	388-002115	Ohm International	1912368.59	Line Hardware	Yes	Jan-13-80	Feb-15-79	Apr-13-80	Nov-15-80	100%	Completed	
30	388-002107	Samsung	102696.79	Insulators Pin & Spool	Yes	Apr-23-80	May-14-80	Jul-23-80	Jul-27-80	100%	Sep-30-81	
31	388-002107	Samsung	249963.87	Insulators Suspension	Yes	Apr-23-80	May-14-80	Jul-23-80	Jul-27-80	100%	Sep-30-81	
32	388-002116	Alimnum Industries	5656932.78	Bare Conductor	Yes	Feb-13-80	Feb-15-80	May-14-80	Oct-17-80	100%	Dec-31-81	
34	388-002111	Ohm International	314772.68	Conductor Accessories	Yes	Dec-08-79	Dec-08-79	Jun-15-81	Oct-08-79	100%	Completed	
35	388-002112	Hyosung	1131262.10	Transformers	Yes	Aug-15-80	Agu-03-80	Jan-15-81	Dec-17-80	100%	Jun-30-81	

QUARTERLY SHIPPING REPORT JUNE 30, 1981

NO.	L. C.	BENEFICIARY	AMOUNT	PRODUCT	SHIPPING DOCUMENTS RECEIVED	50%		100%		%		L/COM EXPIRES	ACTION REQUIRED
						TO BE SHIPPED	SHIPPED	TO BE SHIPPED	SHIPPED	SHIPPED OR RECEIVED			
36	388-002108	McGraw Edison	119542.50	Reclosures	Yes	Mar-07-80	Feb-10-80	Apr-09-80	Feb-13-80	100%	Completed		
37	388-002117	American Exp.Grp.	180490.95	Connectors	Yes		Dec-10-79		Dec-10-79	100%	Completed		
38	388-002113	General Electric	358236.00	Voltage Regulators	Yes	Feb-21-80	Dec-10-79	May-22-79	Jan-23-80	100%	Sep-30-81		
39	388-002109	Universal Energy	108300.00	Street Lighting Equip	Yes	Mar-07-80		Mar-24-80	Mar-12-80	100%	Completed		
40	388-002110	New World Research	309285.12	Ground & Guy Wire	Yes	Dec-24-79	Oct-26-79	Mar-24-80	Oct-26-79	100%	Completed		
41	388-002113	Ohm International	1091300.00	10 Meters	Yes	May-30-80	Jun-27-80	Jun-30-80	Apr-04-80	100%	Completed		
42	388-002114	Sangame International	102064.52	30 Meters	Yes	Jan-07-80	Oct-15-79	Apr-07-79	Oct-15-79	100%	Sep-30-81		
43n	388-002111	Ohm International	140643.26	Static Converters	Yes	Dec-24-79	Feb-06-80	Mar-24-80	Mar-04-80	100%	Completed		
44	388-002111	Ohm International	343291.46	Sectionalizing Devices	Yes	Jan-09-80	Jan-08-80	Apr-09-80	Jul-07-80	100%	Completed		
45	388-002118	Koppers Co.	5109107.48	Treated Wood Poles	Yes	Jun-22-80	Jul-15-80	Sep-20-80	Aug-19-80	100%	Jun-30-81		
46	388-002119	B.F.I.D.C.	350916.00	30' Wood Poles	Yes	Dec-31-80	Mar-12-81	Jan-31-82		85%	Sep-30-81		
47	388-002119	B.F.I.D.C.	374804.00	35' Wood Poles	Yes	Dec-31-80		Jul-15-81			Sep-30-81		
48	388-002119	B.F.I.D.C.	351286.00	Crossarms	Yes	Sep-21-80	Oct-15-80	Nov-21-80	Jan-01-81	100%	Jul-31-81		
49	388-002120	New World Research	510266.00	Line Tools	Yes	May-12-80	May-07-80	Jul-11-80	Aug-18-80	100%	Jun-30-81		
50	388-002121	Ohm International	24317.76	Office & Tng.Equipment,	Yes	May-12-80	Mar-04-80	Jul-11-80	Mar-04-80	100%	Mar-31-81		
52	388-002125	Jeep Corp.	348086.83	Jeeps	Yes	May-29-80	May-29-80	Jul-29-80	Jun-15-81	98.8%	Jun-30-82		
53	388-002126	Jeep Corp.	188260.00	Pickups	Yes	May-29-80	May-29-80	Jul-29-80	May-29-80	100%	Jun-30-82		
54	388-002128	American Exp.Croup.	19180.00	Pole Trailer	Yes	Jul-22-80	Apr-23-80	Sep-20-80	Apr-23-80	100%	Sep-30-81		
55	388-002122	I.T.T. Export	169497.96	1 1/2 Ton Trucks	Yes	Jun-06-80	Apr-28-80	Aug-10-80	Apr-28-80	100%	Jun-30-82		
56	388-002123	I.T.T. Export	198542.56	Farm Tractors	Yes	Jun-06-80	Apr-28-80	Jul-12-80	Apr-28-80	100%	Sep-30-81		
57	388-002129	American Export	52330.00	Farm Wagon	Yes	Jun-22-80	Apr-23-80	Sep-22-80	Apr-23-80	100%	Jun-30-81		
61	388-002130	American Export	33510.00	Meter Tables	Yes	Jul-22-80	Aug-19-80	Sep-20-80	Aug-19-80	100%	Sep-30-81		
62	388-002124	I.T.T. Export	49293.20	Miscellaneous Equipment	Yes	May-13-80	Apr-24-80	Jul-12-80	Apr-24-80	100%	Jun-30-81		
63	388-002127	Southwire Company	1348377.50	Conductor-Insulated	Yes	Jul-14-80	Jul-13-80	Oct-13-80	Oct-18-80	100%	Sep-30-81		
64	388-002141	Ohm International	77108.64	Line Tools & Equipment	Yes	Apr-05-81	May-08-81	Jun-04-81	Oct-02-81	100%	Jun-30-81		
65	388-002138	New World Research	21250.00	Conductor Grips	Yes	May-28-81	Feb-18-81	Jul-27-81	Feb-18-81	100%	Dec-31-81		
66	388-002135	Sherman and Riley	275500.00	Stringing Blocks	Yes	Feb-20-81	Dec-18-80	Apr-21-81	Jan-19-81	100%	Jun-30-82		
67	388-002142	Ohm International	72108.96	Test Instruments	Yes	May-05-81	Mar-05-81	Jul-04-81	Jun-24-81	100%	Jun-30-82		
68	388-002136	Barron & Associates	39417.00	Oil Filter	Yes	May-14-81	May-14-81	May-14-81	May-14-81	100%	Dec-31-81		
69	388-002139	New World Research	28923.06	Spare Parts Truck Tractor	Yes			May-28-81	Mar-24-81	100%	Dec-31-81		
71	388-002143	Ohm International	165020.00	Line Hardware	Yes	Jun-30-81	May-28-81	Aug-03-81	May-28-81	100%	Dec-31-81		
72	388-002140	Southwire	593810.87	Conductor	Yes	May-06-81	Jun-27-81	Aug-04-81	Jun-27-81	100%	Jun-30-82		
73	388-002137	Atlantic Export	59688.27	Connectors	Yes	Apr-19-81	Apr-14-81	Jun-18-81	Jun-13-81	100%	Dec-31-81		

EXHIBIT

QUARTERLY SHIPPING REPORT JUNE 30, 1984

INV. NO.	L/COM NO.	BENEFICIARY	AMOUNT	PRODUCT	SHIPPING DOCUMENTS RECEIVED	50%		100%		SHIPPED RECEIVED	OR L/COM ACTION EXPIRES	REQUIRE
						TO BE SHIPPED	SHIPPED	TO BE SHIPPED	SHIPPED			
74	388-002148	Atlantica Export	262556.00	Line Hardware	Yes	Jan-13-82	Nov-20-81	Mar-14-82	Apr-14-82	100%	Mar-30-82	
75	388-T01216	Atlantica Export	41280.00	Line Hardware	Yes	Jan-13-82		Mar-14-82	Dec-28-81	100%	Mar-31-82	
76	388-T01217	Atlantica Export	99288.00	Line Hardware	Yes	Jan-13-82		Mar-14-82	Jan-22-82	100%	Mar-31-82	
78	388-002156	Dae Woo Industrial	56997.58	Copper Conductor	Yes	Jan-13-82		Mar-14-82	Jan-12-82	100%	Mar-31-82	
79	388-002151	Atlantica Export	211125.00	Alum Conductor	Yes	Feb-12-82		May-13-82	Jan-05-82	100%	May-31-82	
80	388-002152	Atlantica Export	189174.00	Connectors	Yes	Jan-13-82	Nov-20-81	Mar-14-82	May-11-82	100%	Mar-31-82	
81	388-002153	Atlantica Export	183750.00	Sectionalizing Devices	Yes	Jan-31-82		Mar-14-82	Jan-28-82	100%	Mar-31-82	
82	388-002157	Dae Woo	295253.00	Transformers	Yes	Jan-13-82		Jan-13-82	Jan-12-82	100%	Jun-30-82	
83	388-002154	Atlantica Export	29912.00	Current Transformers	Yes	Jan-13-82		Jan-13-82	Feb-07-82	100%	Jun-30-82	
84	388-002155	Atlantica Export	215407.00	Meters	Yes	Feb-12-82		Apr-13-82	Mar-17-82	100%	Apr-30-82	
85	388-T01301	Atlantica Wood	805932.00	25' Poles	Yes	Feb-12-82	Nov-23-81	Apr-13-82	Jun-12-82	100%	Apr-30-82	
86	388-T01302	Atlantica Wood	903987.00	30' Poles	Yes	Apr-13-82	Nov-23-82	Jun-02-82	Jun-21-82	100%	Jun-30-82	
87	388-T01303	Atlantica Wood	981519.00	Poles	Yes	Apr-13-82	Nov-23-82	Jun-02-82	Jun-21-82	100%	Jul-30-82	
88	388-T01307	Hyundai Corp.	361869.00	Line Hardware	Yes	Jul-07-82	Jul-10-82	Aug-07-82	Sept-6-82	100%	Aug-31-82	
89	388-T01311	G.E.C. Ltd.	1157125.00	Transformer	Yes	Sep-07-82	Jan-27-82	Jan-07-83	Oct-06-82	100%	Sep-30-83	
90	388-T01310	Kukjee Corp.	1079749.00	Transformer	Yes	Jul-12-82	Jul-06-82	Dec-12-82	Oct-11-82	100%	Dec-31-82	
91	388-T01312	G.E.C. Ltd.	1155850.00	Transformer	Yes	Sep-07-82	Jul-27-82	Jan-07-83	Oct-06-82	100%	Sep-30-82	
92	388-T01308	M.L.M.O. Ltd.	108078.00	Ground Guy Wire	Yes	Jul-07-82		Dec-07-82	Nov-04-82	100%	Dec-31-82	
93	388-T01309	Atlantica Int. Corp.	377464.10	Meter & Transformer	Yes	Aug-07-82	May-05-82	Dec-07-82	Aug-03-82	100%	Dec-31-82	
94	388-T01314	Daewoo Corp.	40022.00	Insulators	Yes	Oct-07-82		Dec-07-82	Oct-08-82	100%		
95	388-T01315	Daewoo Corp.	41800.00	Insulator	Yes	Oct-07-82	Aug-23-82	Dec-07-82	Oct-08-82	100%		
96	388-T01316	Midland Metals	817690.00	Bare Cond. & Armor Rod	Yes	Oct-07-82		Dec-07-82	Oct-07-82	100%		
97	388-T01317	Atlantica Int'l Corp.	548743.75	Conductor Duplex	Yes	Oct-07-82		Jan-01-83	Oct-05-82	100%		
98	388-T01318	W. E. C.	406430.00	Sectionalizing Devis	Yes	Aug-23-82		Oct-23-82	Oct-12-82	100%		
99	388-T-1320	Atlantica Corp.	29951.90	Connectors	Yes	Aug-08-82	Jul-07-82	Oct-24-82	Jul-07-82	100%		
100	388-002167	Sangam Int'l Inc.	800000.00	Single Phase Meter	Yes	Dec-17-82	Aug-05-82	Apr-04-83	Aug-05-82	100%		
101	388-T01319	OHM Int'l	55660.00	Line Tools	Yes	Sep-09-82	Aug-25-82	Nov-17-82	Aug-25-82	97%		

EXHIBIT - G

QUARTERLY SHIPPING REPORT JUNE 30, 84

INV. NO.	L/COM:NO	BENEFICIARY	AMOUNT	PRODUCT	SHIPPING DOCUMENTS RECEIVED	50%		100%		% SHIPPED OR RECEIVED	L/COM EXPIRES	ACTION REQUIRE
						TO BE SHIPPED	SHIPPED	TO BE SHIPPED	SHIPPED			
102	388-T-01327	Southern Wood Piedmort Co.,	772654.00	Wooden Poles	Yes	12-5-83	-	9-9-83	Apr-21-83	99.67%		
103	-	- do -	689258.00	Wooden Poles	Yes	-	-	-	-	100%		
104	388-T-01332	BFIDC	564030.00	Wooden Poles	Yes	16-5-83	-	13-9-83	-	100%		
105	-do-	BFIDC	564030.00	Wooden Poles	Yes	16-5-83	-	13-9-83	-			
106	388-T-01321	Daewoo Corp.	312535.00	Anchor Log.	Yes	Nov-14-82 (25%)	-	Mar-14-83	-	100%		
107	388-T-01323	Atlantica Int. Corp.	337307.00	Sub-Station Materials	Yes	Feb-21-83	-	Mar-25-83	Mar-25-83	100%		
108	388-T-01324	Atlantica Int. Corp.	217571.30	Sub-Station Materials	Yes	Feb-21-83	-	Apr-22-83	Jun-06-83	100%		
109	388-T-013-25	Mc-Graw-Edison	361454.92	Sub-Station Materials	Yes	Feb-01-83	-	Mar-23-83	Feb-15-83	100%		
110	388-T-013-26	Atlantica Int. Corp.	156123.10	Lighting Arrester	Yes	Feb-02-83	17-9-82	Mar-04-83	Apr-04-83	100%		
	(388-002131)	C.A.I.	9171.80	Motor Cycle Helmets	Yes				May-13-80	100%	Completed	
	(388-002132)	C.A.I.	82528.73	Stringing Block	Yes				Jul-31-80	100%	Completed	
111	388-T-01335	Hyundia Corp.	305398.00	Line Hard Ware	Yes	13-8-83	-	13-9-83	Sep-06-83	100%		
112	388-T-01328	Hyundia Corp.	64808.00	Pin Insulator	Yes	12-6-83	-	12-7-83	Jun-01-83	100%	Completed	-
113	388-T-013-29	National Insulated Cable Co., of India	147470.00	Conductor Wire Armared	Yes	40%						
	02-03-83					01-6-83	-	01-07-83	Aug-08-83	64%	-	-
114	388-T-01336	Amixter Ohm Inter.	167153.66	Sectionalizing Devices	Yes	13-8-83	-	08-09-83	Jun-25-83	100%		
115	388-T-01333	Amixter Ohm Inter. Inc.	24000.00	Connectors & Clamp	Yes	03-7-83	-	04-08-83	Jun-01-83	100%		
116	388-T-01338	Medidores Schiumberger	855500.00	Single Phase Meter	Yes	9-1-84	Nov-7-83	9-2-84	-	100%		
117	388-T-01334	New World Research	145300.00	Three Phase Meter	Yes	08-8-83	-	03-09-83	Nov-02-83	100%		
118	388-002169	Amixter Ohm Inter.Inc.	34000.00	Line Tools	Yes	12-6-83	-	12-07-83	Apr-07-83	100%	-	-
119	388-T-013-31	Miland Metals	406915.60	Insulated Conductor	Yes	31-5-83	-	28-09-93	Aug-08-83	100%		
	01-02-83	Oversseas Ltd.										
120	388-T-013	BFIDC	124668.00	Cross arms	No	01-7-83(40%)	-	31-07-83	Sep- -83	90%		
124	388-T-013045	Star Iron Work	173617.00	Hardware	No	16-5-84	-	16-6-84				
125	388-T-013046	Midland Metal	63000.00	Bare Conductor Armor Rod	No	16-5-84	-	16-6-84				
126	388-T-013042	Phelps Dodge Ltd.	15250.00	Conductor insulated	No	7-5-84	-	7-6-84				
128	388-T-013043	B.I.S.W.F.	3102.50	Spool insulator	No	7-5-84	-	7-6-84				
129	388-T-01347	Burndy Corporation	17727.07	Connector	No	16-5-84	-	16-6-84				
130	388-T-01348	New World Research	47809.00	Guywire and grounding wire	No	16-5-84	-	16-6-84				
131	388-T-01352	Atlantic Int. Corp.	19755.00	Sectionalizing Devices	No	23-6-84	-	16-7-84				
132	388-T-01349	Atlantica Int. Corp.	44394.00	3Ø Meter	No	16-6-84	-	16-7-84				
133	388-T-01350	Atlantica Int. Corp.	155233.00	Capacitor and Accessories	No	16-6-84	-	16-7-84				
134	388-T-01351	Atlantica Int. Corp.	52604.00	Sub-station spare parts	No	16-6-84	-	16-7-84				

QUARTERLY SHIPPING REPORT JUNE 30, 1984

INV. NO.	L/COM NO.	BENEFICIARY	AMOUNT	PRODUCT	SHIPPING DOCUMENTS RECEIVED	50%		100%		% SHIPPED OR RECEIVED	L/COM EXPIRES	ACTION REQUIRE
						TO BE SHIPPED	SHIPPED	TO BE SHIPPED	SHIPPED			
139E	388-T-005402	Imp Enterprice	139103.00	Hard Ware	No	8-6-84	-	8-7-84				
140E	388-T-005408	Star Iron Works	217253.00	Hard Ware	No	2-5-84	-	2-6-84				
142E	388-T-005403	Dhelps Dodge Ltd.	234642.00	Insulated Conductor	No	24-4-84	-	24-5-84				
144E	388-T-005402	B.I.S.W. Factory	10009.00	Insulated Spool (ok)	No	24-4-84	-	24-5-84				
146E	388-T-005404	Star Iron Works	41828.00	Conductor Accosseries	No	2-5-84	-	2-6-84				
152E	388-T-005403	M.C. Grow Edition	23498.00	O. C. R.	No	8-7-84	-	8-8-84				
153E	388-T-005405	Atlantica Int. Corp.	17775.00	Metering Cabinet	No	6-5-84	-	6-6-84				
158E	388-T-005407	Atlantica Int. Corp.	153730.00	3Ø meter	No	5-6-84	-	5-7-84				
A.	(388-002133)	Timber Products Inc.	32399.21	Inspection of Poles	Yes					100%	Completed	
	(388-002134)	C. A. I.	61970.00	Nuts and Bolts	Yes					100%	Completed	
	(388-002145)	C. A. I.	3291.00	Meter Seals	Yes				Oct-09-82	100%	Feb-27-81	
	(388-002146)	C. A. I.	19414.71	Compression Tools W/Dies	Yes				Feb-28-81	100%	Jun-30-82	
	(388-002147)	C. A. I.	21660.00	Meter Test Equipment	Yes				May-20-81	100%	Jun-30-82	
		C. A. I.	3291.00	Fuse Links	Yes				Jun-08-81	100%	Jun-30-82	
	(388-002161)	C. A. I.	38208.08	Tires	No				May-14-81	100%	Apr-30-82	
B.	N/A	B.F.I.D.C.	21500.00	Cross arms	No	Mar-21-81		Apr-25-81		100%	N/A	
C.	N/A	B.F.I.D.C.	97500.00	25' Wood Poles	No					100%	N/A	
D.	N/A	B.F.I.D.C.	902487.25	25' Wood Poles & Anchor	No					96%	N/A	
E.	N/A	OHM Int'l	345660.00	Meter Spare Part Logs	Yes				Jun-07-81	100%	N/A	
127	388-0021	Hyundai Corp.	19640.00	Pin Insulator	Yes	14-05-84		14-05-84		100%		
141E	388-005412	Midland Metals	532493.00	B. Connductor	Yes	4-06-84		4-07-84		78%		
143E	388-005413	Midland Metals	12356.00	Pin Insulator	Yes	4-06-84		4-07-84		38%		
145E	388-005414	B.I.S.F. Ltd	25000.00	Ins. Suspens	Yes	4-06-84		4-07-84		100%		
147E	388-005426	Midland Metals	97592.63	Guy Wire	Yes	25-06-84		25-07-84		100%		
150E	388-00509	Burndy	74810.43	Connector	Yes	12-05-84		12-06-84		62%		
151E	388-005418	S&C Electric	204199.00	Sect. Devices	Yes							
154E	388-005411	Camex Int.	131017.45	Line Tools	Yes	22-05-84		22-06-84				
113	388-T-013-29	National Insulated Cable Co., of India	147470.00	Conductor Were & Armor Rd.	Yes	1-7-83		1-7-83		100%		
120	388-T-013	B.F.I.D.C.	124668.00	Cross Arm	Yes	1-7-83		31-7-83		90%		
124	388-T-013045	Star Iron Works (Pvt.ltd)	173617.00	Hard Ware	No	16-5-84		16-6-84		-		
125	388-T-013046	Mid Land Metal	63000.00	Bare Con. & Armor Rd.	Yes	16-5-84		16-6-84		92%		
126	388-T-013042	Phelps Dodge Ltd.	15250.00	Conductor Insulated	Yes	7-5-84		7-6-84		100%		

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QUARTERLY SHIPPING REPORT JUNE 30, 1984

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INV. NO.	L/COM NO.	BENEFICIARY	AMOUNT	PRODUCT	SHIPPING DOCUMENTS RECEIVED	50%		100%		%	SHIPPED OR RECEIVED	L/COM EXPIRES	ACTION REQUIRED
						TO SHIPPED	BE SHIPPED	TO SHIPPED	BE SHIPPED				
127	388-T-0021	Hundia Corporation	19640.00	Pin Insulator	Yes	14-5-84		14-6-84		100%			
128	388-T-013043	B. I. S. W. F.	3102.50	Spool Insulator	No	7-5-84		7-6-84		-			
129	388-T-01347	Burndy Corporation	17727.07	Connector	Yes	16-5-84		16-6-84		100%			
130	388-T-01348	New World Research	47809.00	Guy Wire and Grounding Wire	Yes	16-5-84		16-6-84		100%			
131	388-T-01352	Atlantica Int. Corp.	19755.00	Sectionalizing Devics	Yes	23-6-84		16-7-84		35%			
132	388-T-01349	Atlantica Int. Corp.	44394.00	3Ø Meter	Yes	16-6-84		16-7-84		93%			
133	388-T-01350	Atlantica Int. Corp.	155233.00	Capacitor and Accorrories	No	16-6-84		16-7-84		-			
134	388-T-01351	Atlantica Int. Corp.	52604.00	Sub-Station Spare Parts	Yes	16-6-84		16-7-84		100%			

(A-B-C-D-E) Negotiated Purchases approved by U.S. AID (B & E) To be paid for by monies received from Insurance Claims.

EXHIBIT - G

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QUARTERLY SHIPPING REPORT RECAP
 PERIOD ENGING 30, JUNE 1984

L/COM NOS. 388-T01327, IFB-103, 01321, 01323, 01324, 01325, 01326, 01335, 01328,
 01333, 01336, 0133, 01334, 002169 SHIPMENTS WERE COMPLETED IN REVEVIOUS QUATERS
 SHOWN IN PREVIOUS REPORTS. TOTALS ARE SHOWN BELOW:

<u>L/Com No.</u>	<u>Total Long Tons</u>	<u>Long Tons On U.S. Vessel Fls.</u>	<u>Total Freight Cost</u>	<u>Freight Paid From US. Fund</u>	<u>FOB Value</u>	<u>Shipment Completed</u>
*L/Com Above	44280.79	30844.540	8045112.85	8045112.85	43535853.55	YES
388-T0129	135.5311	-	6996.08	6996.08	138812.23	NO
388-T013046	36.2440	-	1928.93	1928.93	58350.00	NO
388-T013042	8.7480	-	1227.20	1227.20	14000.00	YES
388-T01021	20.7578	-	2340.00	2240.00	17300.00	YES
388-T-01347	2.0833	0.2723	573.66	573.66	17023.95	NO
388-T-01348	25.7785	-	3190.00	3190.00	44619.00	YES
388-T-01352	0.5357	.5357	239.40	239.40	6750.00	NO
388-T-01350	3.5200	3.5200	2093.70	2093.70	39276.00	NO
388-T-01351	1.8392	1.8392	406.00	406.00	52198.00	YES
388-T-005412	494.2775	-	20209.13	20209.13	516818.03	NO
388-T-005403	163.4448	-	22137.00	22137.00	212505.00	YES
388-T-005413	15.2315	-	555.00	555.00	11701.00	NO
388-T-005414	21.7352	-	1000.00	1000.00	24000.00	YES
388-T-005426	68.3490	-	4800.00	4800.00	92791.63	YES
388-005409	8.0787	7.3858	3216.64	3216.64	71602.89	NO
388-005418	40.5236	40.5236	18298.80	18298.80	185901.00	NO
388-T-005403	2.2776	2.2776	1428.89	1428.89	21875.00	YES
388-T-005405	2.9017	2.9017	300.00	300.00	17475.00	YES
388-T-00544	7.2746	7.2746	4608.37	4608.37	126408.38	YES
<u>Consultants</u>						
	45339.9218	30911.0705	8140661.65	8140661.65	45091460.66	
<u>6.28% carried on U.S. Flag Ship</u>						

EXHIBIT - H

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NO. OF METERS INSTALLED IN DIFFERENT ENERGIZED
PALLI BIDYUT SAMITIES UPTO MAY, 1984

Name of the PBS	Domestic	Irrigation			Industry		Small Com.	St. Lt.	T o t a l	
		DTW	STW	LLP	GP-A &	GP-B				
Dhaka PBS-I	USAID	11655	221	197	158		375	883	85	13574
Tangail PBS-I	"	4924	96	421	34		137	535	33	6180
Comilla PBS-I	"	8673	57	116	97		192	1639	57	10831
Comilla PBS-II	"	5483	8	4	131		154	1914	21	7715
Sylhet PBS-I	"	3810	3	12	4		95	1021	28	4973
Sylhet PBS-II	"	6193	-	9	-		71	551	20	6844
Pabna PBS-I	"	3229	20	103	-		90	843	106	4391
Pabna PBS-II	"	3404	11	79	5		85	899	33	4516
Pabna PBS-III	"	6676	107	487	88		208	1673	86	9325
Jessore PBS-I	"	5890	84	186	29		129	1741	51	8110
Jessore PBS-II	"	7069	19	213	26		98	1607	111	9143
Rajshahi PBS-I	"	5994	64	422	69		137	705	85	7476
Rajshahi PBS-II	"	6212	31	203	7		161	1053	100	7767
Rangpur PBS-I	KFAED	356	2	1	-		-	364	-	723
Khulna PBS-I	"	887	-	-	-		-	318	-	1205
Noakhali PBS-I	"	1371	1	4	1		1	50	-	1428
Mymensing PBS-I	"	665	4	-	-		-	27	-	696
TOTAL		82,491	728	2457	649		1933	15823	816	104,624

EXHIBIT - I

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EXHIBIT - J.
SUBSTATION SUMMARY - USAID UPTO 30 JUNE, 1984

Page 1 of 2

SUBSTATION NAME	PBS	KV	SIZE MVA	PERCENT COMPLETE	REMARKS
Savar	Dhaka-I	33/11	5	100	In Service
Dhamrai	Dhaka-I	33/11	5	100	" "
Kaliakair	Dhaka-I	33/11	5	100	" "
Gouripur	Comilla-I	33/11	5	100	" "
Chandina	Comilla-I	33/11	5	100	" "
Natore	Rajshahi-I	33/11	5	100	" "
Manirampur	Jessore-II	33/11	5	100	" "
Avoy nagar	Jessore-II	33/11	5	100	" "
Srimongal	Sylhet-II	33/11	5	100	" "
Moulvi Bazar	Sylhet-II	33/11	5	100	" "
Kamalganj	Sylhet-II	33/11	2.5	100	" "
Mirzapur	Tangail-I	33/11	5	100	" "
Tangail	Tangail-I	33/11	2.5	100	" "
Ullapara Bazar	Pabna-III	66/11	5	100	" "
Banpara	Rajshahi-II	33/11	5	100	" "
Lalpur	Rajshahi-II	33/11	2.5	100	" "
Hajiganj	Comilla-II	33/11	5	100	" "
Chandpur	Comilla-II	33/11	5	100	" "
Faridganj	Comilla-II	33/11	5	65	
Santhia	Pabna-II	33/11	2.5	100	In Service
Kashinathpur	Pabna-II	33/11	5	100	" "
Shaistaganj	Sylhet-I	33/11	5	100	" "
Jessore	Jessore-I	33/11	5	100	" "
Navaron	Jessore-I	33/11	5	100	" "

* Faridganj Substation originally scheduled for US AID type substation.
KFAED type now being constructed.

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EXHIBIT - J
SUBSTATION SUMMARY - USAID

Page 2 of 2

SUBSTATION NAME	PBS	KV	SIZE MVA	PERCENT COMPLETE	R E M A R K S
Chatmohar	Pabna-I	33/11	2.5	100	In Service
Madhabpur	Sylhet-I	33/11	5	100	" "
Kashimpur	Dhaka-I	33/11	2.5	100	Renovation from PDB
Gorai	Tangail-I	33/11	5	100	

KFAED UPTO JUNE 30, 1984

Khulna	Khulna-I	33/11	5	100	In Service
Mymensingh	Mymensingh-I	33/11	5	100	" "
Rangpur	Rangpur	33/11	5	100	" "
Noakhali	Noakhali-I	33/11	5	100	" "
Dinagpur	Dinagpur-I	33/11	5	80	" "

QUARTERLY SHIPPING REPORT

Report up to 22-7-84

US AID PHASE-I

Page 1 of 2

Invitation No.	Name of Suppliers	Description	Quantity	Name of Ship Bill of Lading No. Date	50% Delivery Date	100% Delivery Date	Date of Arrival of Ship Estimated *	R E M A R K S
113.	National Insulated Cable Co.,	Conductor Wire & Armor Rod		Banglar Mita B/L-C-1-CH dt. 11.8.84	1- 6-83	1- 7-83		64% shipment completed another shipping document received materials supplied by Truck from Banapole Boarder <u>Khulna, Chandina</u>
120.	B.F.I.D.C.	Cross Arm	8'-10,800 10'-200		1- 7-83	31- 7-83		8'-5820 3450 10'-197 Nil
121.		Wooden Poles						
122.		Wooden Poles						
123.		Wooden Poles						
124.	Star Iron Works (Pvt.) Ltd.	Hard Ware			12- 7-84	12- 9-84		Shipping document not yet received
125.	Midland M.tals	Bare Conductor & Armor Rod		A. AL-Sayestha M/L-SCN-2 dt. 9-4-84 B. AL-Sana-2 B/L-SCN-2 dt. 15-5-84 C. AL-Sharmen B/L-SCN-3 dt. 3-5-84	15- 5-84	16- 6-84		92% shipment completed
126.	Phelps Dodges Thailand Ltd.	Conductor Insulated		A. AL-Sayestha B/L-BKCN-004 dt. 10-4-84	7- 5-84	7- 6-84		100% shipment completed
127.	Hyundia Corporation	Pin Insulator		Banglar Swapna B/L-BUCHA-1801 dt. 22-6-84	14- 5-84	14- 6-84		100% shipment completed
128.	Bangladesh Insulator & S n tary Wire Factory	Insulator (spool)			7- 5-84	7- 6-84		No shipment
		Remarks:	IFB-110, 111, 112, 114, 115, 116, 117, 118, 119					100% shipment completed

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QUARTERLY SHIPPING REPORT
US AID PHASE-I

Report up to 22-7-84

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Invitation No.	Name of Suppliers	Description	Quantity	Name of Ship Bill of Lading No. Date	50% Delivery Date	100% Delivery Date	Date of Arrival of Ship Estimated	R E M A R K S
129.	Burndy Corporation	Connector		A. Nedlloyd Nagasaki B/L-1 dt. 26-4-84 B. Sam Houston B/L-12 dt. 14-5-84	16-5-84	16-6-84		100% shipment completed
131.	Atlantica Inter Corporation	Sectionalizing Devices		Stone Wall Jackson B/L-14 dt. 18-5-84	23-6-84	23-7-84		35% shipment completed
132.	Atlantica Inter Corporation	Three Phase meter & Metering X former		Stone Wall Jackson B/L-17 dt. 6-7-84	16-6-84	16-7-84		43% shipment completed
133.	Atlantica Inter Corporation	Capacitor & Accessories			16-6-84	16-7-84		No shipment
134.	Atlantica Inter Corporation	Sub-station Spare arts		Stone Wall Jackson B/L-14 dt. 6-6-84	16-6-84	16-7-84		100% shipment completed
135.		Wooden Poles						Re-tendered
136.		Wooden Poles						Re-tendered
137.		Wooden Poles						Re-tendered
138.		Wooden Poles						Re-tendered

Remarks: IFB-130% shipment completed

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QUARTERLY SHIPPLING REPORT

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KFAED

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Invitation No.	Name of Suppliers	Description	Quantity	Name of Ship Bill of Lading No. Date	50% Delivery Date	100% Delivery Date	Date of Arrival of Ship Estimated *	R E M A R K S
13.	B.F.I.D.C.	Wooden Poles 25' length	7000		<u>Delivered</u> 6918			98% shipment completed
16.	B.F.I.D.C.	Wooden Cross Arms	8'5200 10'.500		5025 200			96% shipment completed 40% shipment completed
17.	B.F.I.D.C.	Wooden Anchor Log.	3'-6"·8600 4'-0"·1000 6"-0"·600		8165 1000 600			94% shipment completed 100% shipment completed 100% shipment completed
19.	Hyundia Corporation	Line Hard Ware		Murray Everet B/L-B-ICH dt. 3-6-84	10- 2-84	10- 5-84		100% shipment completed
20.	Sterlite Cable Ltd.	Bare Conductor			24- 4-84	24- 5-84		No shipment
21.	Atlantica Int. Corporation	Line Hard Ware		Benjai Mani Harrison B/L-D/RKF (CN-1) dt. 31-1-84	13- 1-84	24- 4-84		97% shipment completed
22.	Daewoo Corporation	Pin Insulator		Banglar Rabi B/L-BUCHA-1505 dt. 30-4-84	10- 2-84	20- 5-84		100% shipment completed
27.	GEM Company Ltd., Chittagong	Transformer C.SP Type)		G-1 (A)5KVA=450.G-3-25KVA 30 G-1= 10KVA=1400 G-2= 15KVA=250	1- 2-84	1- 5-84		G-1=10KVA.775 G-1(A)270 G-2=15KVA 250 G-3=25KVA NIL
28.	GEM Company Ltd., Chittagong	Transformer Conventional		Banglar Rabi BUCHA-1704 dt. 30-4-84	1- 2-84	1- 5-84		100% shipment completed
30.		Sectionalizing Devics						Re-tendered.
32.	Seimens Allies	Voltage regulator		William Hooper B/L-6 dt. 25-9-83	13- 2-84	13- 6-84		97% shipment completed

Remarks: IFB-12, 14, 15, 18, 23, 24, 25, 26, 29, 31= 100% shipment completed.

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QUARTERLY SHIPPING REPORT
KFAED

Report up to 22-7-84

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Invitation No.	Name of Suppliers	Description	Quantity	Name of Ship Bill of Lading No. Date	50% Delivery Date	100% Delivery Date	Date of Arrival of Ship Estimated *	R E M A R K S
34.	Medidores	Single Phase Meter		Nedloyed Nagaya B/L-1 dt. 7.2.84	12- 2-84	10- 4-84		76% shipment completed
36.		Hydrolic Crane						Re-tendered
37.	WESCO	Street lighting Equipment						L/Com not yet issued
38.	B.F.I.D.C.	Wooden Poles 25' length	10,000		7- 3-84	9- 5-84	<u>Delivered</u> 3100 pcs.	
39.	B.F.I.D.C.	Wooden Poles 6-30' 7-30'	6,000 6,600		9- 5-84	9- 8-84	174 62	
44.	B.F.I.D.C.	Wooden Cross Arms 8'-0" 10'-0" 12'-0"	13,000 800 800		9- 3-84	9- 5-84	4975 698 NIL	
45.	B.F.I.D.C.	Anchor Log 3'-6" 6'-0"	16,000 2,400		9- 3-84	9- 5-84	16,000 500	

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QUARTERLY SHIPPING REPORT

IDA

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Invitation No.	Name of Suppliers	Description	Quantity	Name of Ship Bill of Lading No. Date	50% Delivery Date	100% Delivery Date	Date of Arrival of Ship Estimated *	R E M A R K S
.	Hyundi Corporation	Line Hard Ware		A. Banglar Tarani B/L-BUCHA-1602 dt. 16-3-84 B. Banglar Swapan B/L-BUCHA-1802 dt. 22-6-84	9- 3-84	17- 6-84		100% shipment completed
.		Conductor						Re-tendered
.	Fasa International	Insulator (spool)			12- 1-84	21- 4-84		
.	Project Equipment Corporation Ltd.	Conductor Accessories		Bhavabhathi B/L No-1 dt. 29-2-84	12- 1-84	21- 4-84		Shipment only one item E-3=683 setsout of 9(nine)
.	GEM Company Ltd.	Transformer C.S.P. Type		G-1(A)=5KVA=300 G-1 =10KVA=900 G-2 = 15KVA=150	G-3-25KVA = 20 6-3-84	4- 6-84		<u>Supplied item</u> G-1=10KVA=450-G-1(A)= 150 G-2=15KVA=150-G-3-25KVA=4
0.	Bando Saugha Co. Ltd.	Transformer Conventional Type		A. Murraye Everett B/L-B-1-C H dt. 25-2-84 B. Banglar Robi B/L-BUCHA-1706 dt. 3-5-84	19- 2-84	19- 5-84		100% shipment completed
1.	New World Reaserch Corporation	Connector		William Hooper B/L-3 dt. 17-1-84	5- 1-84	15- 5-84		40% shipment completed
2.		Sectionalizing Devics						Re-tendered.
3.	Mc-Grow Edition	Voltage Regulator		Sam Houston B/L-10 dt. 10-5-84	30- 5-84	18- 6-84		100% shipment completed

Remarks: IFB-3, 4, 5, 8, 13-100% shipment completed.

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QUARTERLY SHIPPING REPORT

IDA

Invitation No.	Name of Suppliers	Description	Quantity	Name of Ship Bill of Lading No. Date	50% Delivery Date	100% Delivery Date	Date of Arrival of Ship Estimated *	R E M A R K S
15.		Line Tools						Re-tendered
16.	Pacific Engineering	Sub-station Equipment		A. Sam Houston B/L-13 dt. 15-5-84 B. Banglar Kakoli B/L-1 dt. 1-6-84	18- 4-84	17- 7-84		76% shipment completed
17.	B.F.I.D.C.	Wooden Poles 7-25'	6,700		14- 1-84	23- 4-84		Delivered 3935 out of 6700
18.	B.F.I.D.C.	Wooden Poles 6-30' 5-30'	4,700 3,700		14- 1-84	23- 4-84		Delivered 166 out of 4700 106 delivered out of 3700
23.	B.F.I.D.C.	Wooden Cross Arm 8'-0"	8,000		14- 1-84	23- 4-84		8'-0" 2796 10'-0" 224
		10'-0" 12'-0"	400 800					12'-0" NIL
24.	B.F.I.D.C.	Anchor Log 3'-6"	10,000		14- 1-84	23- 4-84		3'-6"- 7,400 4'-0" 700
		4'-0" 6'-0"	8,700 1,200					6'-0" NIL

Remarks: IFB-19, 20, 21 & 22 100% shipment completed
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QUARTERLY SHIPPING REPORT
FINLAND (TIED PORTION)

Report up to 22-7-84

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Invitation No.	Name of Suppliers	Description	Quantity	Name of Ship Bill of Lading No. Date	50% Delivery Date	100% Delivery Date	Date of Arrival of Ship Estimated *	R E M A R K S
1.	Nakia Engg. Corporation	Bare Conductor			30- 4-84	31- 7-84		
2.	Nakia Engg. Corporation	Insulated Conductor			30- 4-84	31- 7-84		
3.		Guy Wire and Grounding Wire						To be barten with (US AID PHASE-II)
4.	Valmet Corporation	Meter Single Phase			31- 8-84			
5.	Oystrom Berger	Power Transformer			August-84			
6.	Finn Trepo Ltd.	Wooden Poles 7-25'	3000		5- 8-84			
7.	Finn Trepo Ltd.	30'-6' 30'-7'	11600 2200		5- 8-84			
8.	Finn Trepo Ltd.	35'-7' 35'-6' 35'-5'	1400 1100 175		5- 8-84			
9.	Finn Trepo Ltd.	40'-5' 40'-4'	770 50		5- 8-84			
10.	Midlan Overseas	Insulator Pin						Request of Supply Paper to Rupali Bank for opening L/C
11.	Inabadenkisangys	Insulator Suspention						Request of Supply Paper to Rupali Bank for opening L/C

EXHIBIT-K

QUARTERLY SHIPPING REPORT
FINLAND (UN-TIEDPORTION)

Report up to 22-7-84

Page 2 of 2

Invitation No.	Name of Suppliers	Description	Quantity	Name of Ship Bill of Lading No. Date	50% Delivery Date	100% Delivery Date	Date of Arrival of Ship Estimated *	R E M A R K S
12.	B.I.S.F.	Insulator Spool						Request to Supply Paper to Rupali Bank for Opening L/C
13.	Star Iron Works India	Conductor Accessories						Request to Supply Paper to Rupali Bank for Opening L/C
14.	GEM Plant, Ctg.	Distribution X former(CSP)						- do -
15.	Atlantic International Corporation	Sectionalizing Devices						- do -
16.	New World Reasearch Corporation	O. C. R.						- do -
17.	New World Reaserch Corporation	Connector						- do -
18.	Seimens Allies	Voltage Regulator						- do -
19.	Atlantica International Corporation	3Ø Meter & Metering Transformer						- do -

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QUARTERLY SHIPPING REPORT

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USAID PHASE-I EXTENSION

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Invitation No.	Name of Suppliers	Description	Quantity	Name of Ship Bill of Lading No. Date	50% Delivery Date	100% Delivery Date	Date of Arrival of Ship Estimated *	R E M A R K S
139(E)	IMP (Enterprise)	Hard Ware			8- 6-84	8- 7-84		No shipment
140(E)	Star Iron Works	Hard Ware			2- 5-84	2 -6-84		No shipment
141(E)	Midland Metals	Bare Conductor		A. AL-Sharmeen B/L-SCN-2 dt. 3-5-84	4- 6-84	4- 7-84		78% shipment completed
				B. AL-Sharmeen B/L-SCN-5 dt. 3-5-84	4- 6-84	4- 7-84		
				C. AL-Sayestha B/L-SCN-4 dt. 9-4-84	4- 6-84	4- 7-84		
142(F)	Helps Dodge Thailand Ltd.	Insulated Conductor		A. AL-Sayestha B/L-BKCN-005 dt. 10-4-84	4- 6-84	4- 7-84		100% shipment completed
				B. AL-Sayestha B/L-BKCN-003 dt. 10-4-84				
				C. AL-Sayestha B/L-BKCN-010 dt. 10-4-84				
				D. AL-Sayestha B/L-BKCN-012 dt. 20-4-84				
				E. AL-Sayestha B/L-BKCN-013 dt. 20-4-84				
				F. AL-Sana B/L-BKCN-003 dt. 20-5-84				

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QUARTERLY SHIPPING REPORT
USAID PHASE-I EXTENSION

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Invitation No.	Name of Suppliers	Description	Quantity	Name of Ship Bill of Lading No. Date	50% Delivery Date	100% Delivery Date	Date of Arrival of Ship Estimated *	R E M A R K S
143E	Midland Metals	Pin Insulator		A. AL-Sana V-2 B/L-SGN-3 dt. 3-5-84	4- 6-84	4- 7-84		100% shipment completed
144E	Bangladesh Insulated and Sanitary Wire Factory	Insulator Spool			24-4 -84	24- 5-84		No shipment
145E	B.I.S.F. Ltd.	Insulator Spool & Suspension		AL-Sana-V-2 B/L-SCN-4 dt. 3-5-84	4 -6-84	4- 7-84		50% shipment completed
146E	Star Iron Works	Conductor Accessories			2- 5-84	2- 6-84		No shipment
147E	Midland Metals	Guy Wire		AL-Sana-V-3 L/L-SCN-1 dt. 6-6-84	25- 6-84	25- 7-84		20% shipment completed
148E	Hyosung Co.,	Transformer						L/Com not yet issued
149(E)	Hyosung Co.,	Transformer						L/Com not yet issued
150E	Burndy	Connector		A. Nedlloyd Nagya B/L-1 dt. 30-5-84 B. Stone Wall Jackson B/L-18 dt. 1-6-84	12- 5-84	12- 6-84		62% shipment completed
151E	S & C Electric	Sectionalizing Devices		A. Stone Wall Jackson B/L-15 dt. 29-5-84				97% shipment completed
152E	M.C. Graw Edison	O.C.R.		A. Sam Houston B/L-9 dt. 2-5-84				100% shipment completed

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QUARTERLY SHIPPING REPORT
USAID PHASE-I & EXTENSION

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Invitation No.	Name of Suppliers	Description	Quantity	Name of Ship Bill of Lading No. Date	50% Delivery Date	100% Delivery Date	Date of Arrival of Ship Estimated	R E M A R K S
153E	Ston Wall Jackson B/L-16 dt. 29-5-84	Metering Cabinet		A. Stone Wall Jackson B/L-29 dt. 29-5-84				100% shipment completed
154E	CAMEX	Line Tool		A. Sam Houston B/L-2 dt. 4-5-84 B. Stone Wall Jackson B/L-1 dt. 26-5-84	22- 5-84	22- 6-84		100% shipment completed
155E	Atlantic Inter Corporation	Power Transformer						L/Com not yet issued
156E	E.I.A. Instrument	Test Instrument						
157E	Midland Metals	Single Phase Meter			4- 7-84	4- 8-84		
158E	Atlantic Inter Corporation	Three Phase Meter						L/Com not yet issued

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QUARTERLY SHIPPING REPORT
US AID PHASE-II

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Invitation No.	Name of Suppliers	Description	Quantity	Name of Ship Bill of Lading No. Date	50% Delivery Date	100% Delivery Date	Date of Arrival of Ship Estimated *	R E M A R K S
1.	M/S. Star Iron Works (Pvt.) Ltd.	Hard Ware						L/Com not yet issued. Request 23-4-84
2.	M/S. Star Iron Works (Pvt.) Ltd.	Hard Ware						L/Com not yet issued. Request 23-4-84
3.	M/S. Midland Matels	Bare Conductor		A. AL-sayestha B/L-SCN-3 dt. 9-4-84 B. AL-Sharmeen B/L-SEN-1 dt. 3-5-84 C. AL-Sharmeen B/L-SEN-4 dt. 3-5-84	4- 5-84	4- 7-84		100% shipment completed
4.	M/S. Phelps Dodge Thailand Ltd.	Insulated Conductor		A. AL-Sayestha B/L-BKCN-006 dt. 10-4-84 B. AL-Sayestha B/L-BKCN-007 dt. 10-4-84 C. AL-Sayestha B/L-BKCN-008 dt. 10-4-84 D. AL-Sayestha B/L-BKCN-009 dt. 10-4-84 E. AL-Sayestha B/L-BKCN-011 dt. 20-4-84 F. AL-Sana B/L-BKCN-001 dt. 20-5-84	15- 5-84	12- 7-84		

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QUARTERLY SHIPPING REPORT
US AID PHASE-II

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Invitation No.	Name of Suppliers	Description	Quantity	Name of Ship Bill of Lading No. Date	50% Delivery Date	100% Delivery Date	Date of Arrival of Ship Estimated *	R E M A R K S
				G. AL-Sana B/L-BKCN-005 dt. 20-5-84				
				H. AL-Sana B/L-006 dt. 8-6-84				
4.	M/S. Phelps Dodge Thailand Ltd.	Insulated Conductor		1. AL-Sana B/L-BKCN-002 dt. 7-6-84	12- 5-84	12- 7-84		100% shipment completed
				2. AL-Sana B/L-BKCN-004 dt. 17-6-84				
5.	M/S. Midland Metals Overseas Ltd.	Pin Insulator		A. AL-Sana-V2 B/L-SCN-1 dt. 26-4-84	4- 5-84	4- 7-84		34% shipment completed
6.	Bangladesh Insulator & Sanitary Works	Suspention Insulator						L/Com not yet issued
7.	Bangladesh Insulator & Sanitary Works	Spool Insulator						L/Com not yet issued
8.	M/S. Star Iron Works (Pvt.) Ltd.	Conductor accessories						Request 16-4-84
9.	M/S. Midland Metals Overseas Ltd.	Guy Wire & Grounding Wire		A. AL-Sana-V3 B/L-SCN-2 dt. 6.6.84	23- 5-84	23- 7-84		100% shipment completed
10.	Hyosung Heavy Industries Ltd.	Distribution X former C.S.P						L/Com not yet issued
11.	Hyosung Heavy Industries Ltd.	Distribution X former C.S.P						Request 28-3-84
12.	Atlantic International Corporation	Connector			22- 5-84	22- 7-84		

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QUARTERLY SHIPPING REPORT

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Invitation No.	Name of Suppliers	Description	Quantity	Name of Ship Bill of Lading No. Date	50% Delivery Date	100% Delivery Date	Date of Arrival of Ship Estimated	R E M A R K S
13.	Mc-Grow Edision	Sectionalizing Devics		Sam Houston B/L-11 dt. 15-5-84	12- 6-84	12- 07-84		6% shipment completed
14.	M/S. Anixter Ohm International	O. C.R.						L/Com not issued.
15.	M/S. New World Research Corporation	Metering Cabinet						Request 12-3-84
16.	M/S. Anixter Ohm International	Line Tools						Request 10-4-84
21.	Atlantica Ohm International	Single Phase Meter			22- 9-84	22-11-84		No shipment

Remarks: IFB-17, 18, 19, 20 & 22 Re-tendered.

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